

10541677

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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS	3	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS	4	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS	5	APR 28	IMSRESEARCH reloaded with enhancements
NEWS	6	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS	7	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS	8	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	9	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	10	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	11	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	12	JUN 25	CA/CAPplus and USPAT databases updated with IPC reclassification data
NEWS	13	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	14	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	15	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	16	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	17	JUL 28	CA/CAPplus patent coverage enhanced
NEWS	18	JUL 28	EPFULL enhanced with additional legal status information from the epline Register
NEWS	19	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	20	JUL 28	STN Viewer performance improved
NEWS	21	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	22	AUG 13	CA/CAPplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	23	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	24	AUG 15	CAPplus currency for Korean patents enhanced
NEWS	25	AUG 25	CA/CAPplus, CASREACT, and IFI and USPAT databases enhanced for more flexible patent number searching
NEWS	26	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence

Updated Search

10541677

information

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Documents and Settings\brobinson1\My Documents\ aertr.str

L1 STRUCTURE UPLOADED

Updated Search

10541677

=> s 11

SAMPLE SEARCH INITIATED 17:40:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 451019 TO ITERATE

0.4% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 8981978 TO 9058782
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=>

Uploading C:\Documents and Settings\brobinson1\My Documents\ aeraty.str

L3 STRUCTURE UPLOADED

=> s 13

SAMPLE SEARCH INITIATED 17:42:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 79510 TO ITERATE

2.5% PROCESSED 2000 ITERATIONS 1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 1573419 TO 1606981
PROJECTED ANSWERS: 417 TO 1173

L4 1 SEA SSS SAM L3

=>

Uploading C:\Documents and Settings\brobinson1\My Documents\ aertg.str

L5 STRUCTURE UPLOADED

=> s 15

SAMPLE SEARCH INITIATED 17:43:55 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1257 TO ITERATE

100.0% PROCESSED 1257 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 23014 TO 27266
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s 15 full

Updated Search

10541677

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 17:44:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 25767 TO ITERATE

100.0% PROCESSED 25767 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L7 1 SEA SSS FUL L5

=> file hcaplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
184.80	185.01

FULL ESTIMATED COST

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008
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FILE COVERS 1907 - 5 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 4 Sep 2008 (20080904/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7

L8 1 L7

=> d l8, ibib abs hitstr, 1

L8 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:606465 HCAPLUS

DOCUMENT NUMBER: 141:157037

TITLE: Preparation of pyridine derivatives useful for inhibiting sodium/calcium exchange system

INVENTOR(S): Otsomaa, Leena; Koskelainen, Tuula; Karjalainen, Arto; Rasku, Sirpa; Pollesello, Piero; Levijoki, Jouko

PATENT ASSIGNEE(S): Orion Corporation, Finland

SOURCE: PCT Int. Appl., 108 pp.

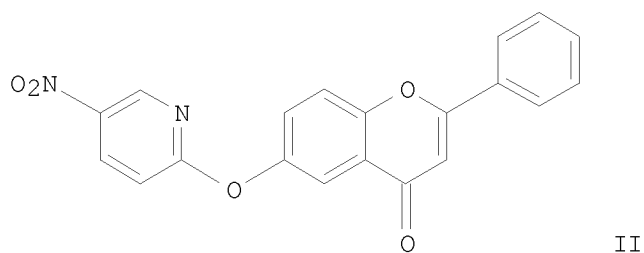
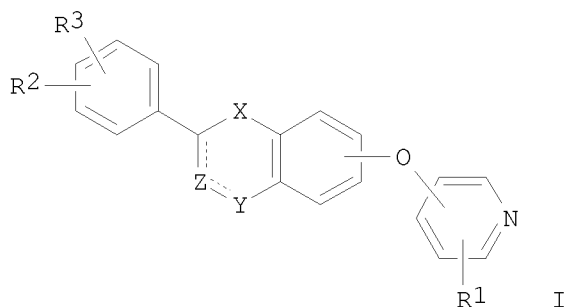
Updated Search

10541677

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004063191	A1	20040729	WO 2004-FI11	20040109
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
AU 2004203943	A1	20040729	AU 2004-203943	20040109
CA 2512184	A1	20040729	CA 2004-2512184	20040109
EP 1583759	A1	20051012	EP 2004-701023	20040109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004006669	A	20051220	BR 2004-6669	20040109
CN 1745078	A	20060308	CN 2004-80003357	20040109
JP 2006516271	T	20060629	JP 2006-500151	20040109
NZ 541087	A	20080430	NZ 2004-541087	20040109
IN 2005KN01287	A	20061027	IN 2005-KN1287	20050701
MX 2005PA07435	A	20050912	MX 2005-PA7435	20050708
NO 2005003730	A	20051007	NO 2005-3730	20050803
US 20060241147	A1	20061026	US 2005-541677	20051028
ZA 2005005461	A	20060329	ZA 2005-5461	20060124
PRIORITY APPLN. INFO.:			FI 2003-30	A 20030109
			WO 2004-FI11	W 20040109
OTHER SOURCE(S):		MARPAT 141:157037		
GI				

10541677

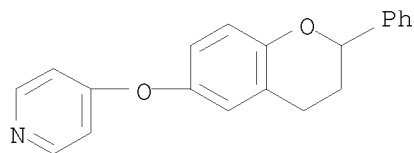


AB Title compds. I [X = O, CH₂, CO; Z = divalent alkyl, bond; Y = CH₂, CO, divalent alkyl, etc.; R₂-3 = H, alkyl, alkoxy, etc.; R₁ = H, CN, halo, etc. with provisos] are prepared For instance, II is prepared from 2-chloro-5-nitropyridine and 6-hydroxyflavone (DMF, 120°, 30 min). I are potent inhibitors of Na⁺/Ca²⁺ exchange mechanism.

IT 728937-39-1P, 4-(2-Phenylchroman-6-yloxy)pyridine
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of pyridine derivs. useful for inhibiting sodium/calcium exchange system)

RN 728937-39-1 HCAPLUS

CN Pyridine, 4-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



=> file caold
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
8.14	193.15

Updated Search

10541677

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.80	-0.80

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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- . November 22, 2008 - removed from database clusters
- . December 31, 2008 - removed from STN

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=> d his

(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008

L1	STRUCTURE UPLOADED
L2	0 S L1
L3	STRUCTURE UPLOADED
L4	1 S L3
L5	STRUCTURE UPLOADED
L6	0 S L5
L7	1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008

L8	1 S L7
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FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008

=> s 17

Updated Search

10541677

L9 0 L7

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.46	193.61
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.80

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

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L10 STRUCTURE UPLOADED

=> d l10

L10 HAS NO ANSWERS
L10 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l10

SAMPLE SEARCH INITIATED 17:45:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 761 TO ITERATE

100.0% PROCESSED 761 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

Updated Search

10541677

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 13565 TO 16875
PROJECTED ANSWERS: 0 TO 0

L11 0 SEA SSS SAM L10

=> s l10 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 17:45:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 14329 TO ITERATE

100.0% PROCESSED 14329 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L12 1 SEA SSS FUL L10

=> d his

(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 STRUCTURE UPLOADED
L4 1 S L3
L5 STRUCTURE UPLOADED
L6 0 S L5
L7 1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008

L8 1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008

L9 0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008

L10 STRUCTURE UPLOADED
L11 0 S L10
L12 1 S L10 FULL

=> s l12 not l7

L13 1 L12 NOT L7

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	179.28	372.89
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.80

FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008

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FILE COVERS 1907 - 5 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 4 Sep 2008 (20080904/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l13

L14 1 L13

=> d l14, ibib abs hitstr, 1

L14 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:606465 HCAPLUS

DOCUMENT NUMBER: 141:157037

TITLE: Preparation of pyridine derivatives useful for inhibiting sodium/calcium exchange system

INVENTOR(S): Otsomaa, Leena; Koskelainen, Tuula; Karjalainen, Arto; Rasku, Sirpa; Pollesello, Piero; Levijoki, Jouko

PATENT ASSIGNEE(S): Orion Corporation, Finland

SOURCE: PCT Int. Appl., 108 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004063191	A1	20040729	WO 2004-FI11	20040109
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
AU 2004203943	A1	20040729	AU 2004-203943	20040109
CA 2512184	A1	20040729	CA 2004-2512184	20040109
EP 1583759	A1	20051012	EP 2004-701023	20040109

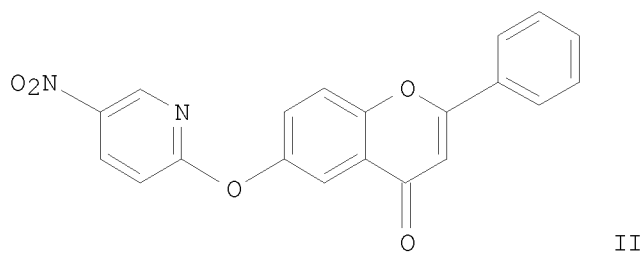
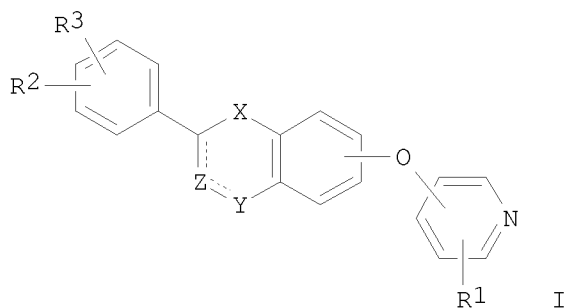
Updated Search

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

BR 2004006669	A	20051220	BR 2004-6669	20040109
CN 1745078	A	20060308	CN 2004-80003357	20040109
JP 2006516271	T	20060629	JP 2006-500151	20040109
NZ 541087	A	20080430	NZ 2004-541087	20040109
IN 2005KN01287	A	20061027	IN 2005-KN1287	20050701
MX 2005PA07435	A	20050912	MX 2005-PA7435	20050708
NO 2005003730	A	20051007	NO 2005-3730	20050803
US 20060241147	A1	20061026	US 2005-541677	20051028
ZA 2005005461	A	20060329	ZA 2005-5461	20060124
PRIORITY APPLN. INFO.:			FI 2003-30	A 20030109
			WO 2004-FI11	W 20040109

OTHER SOURCE(S): MARPAT 141:157037
GI



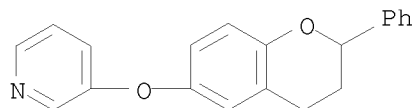
AB Title compds. I [X = O, CH₂, CO; Z = divalent alkyl, bond; Y = CH₂, CO, divalent alkyl, etc.; R₂-3 = H, alkyl, alkoxy, etc.; R₁ = H, CN, halo, etc. with provisos] are prepared For instance, II is prepared from 2-chloro-5-nitropyridine and 6-hydroxyflavone (DMF, 120°, 30 min). I are potent inhibitors of Na⁺/Ca²⁺ exchange mechanism.

IT 728937-59-5P, 3-((2-Phenylchroman-6-yl)oxy)pyridine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyridine derivs. useful for inhibiting sodium/calcium exchange system)

Updated Search

10541677

RN 728937-59-5 HCAPLUS
CN Pyridine, 3-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



=> file caold
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
8.14	381.03

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE

SINCE FILE	TOTAL
ENTRY	SESSION
-0.80	-1.60

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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- . November 22, 2008 - removed from database clusters
- . December 31, 2008 - removed from STN

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Updated Search

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(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 STRUCTURE UPLOADED
L4 1 S L3
L5 STRUCTURE UPLOADED
L6 0 S L5
L7 1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008

L8 1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008

L9 0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008

L10 STRUCTURE UPLOADED
L11 0 S L10
L12 1 S L10 FULL
L13 1 S L12 NOT L7

FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008

L14 1 S L13

FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008

=> s l13

L15 0 L13

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.46	381.49
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.60

FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008

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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when

Updated Search

10541677

conducting SmartSELECT searches.

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

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L16 STRUCTURE UPLOADED

=> s l16

SAMPLE SEARCH INITIATED 17:47:40 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2931 TO ITERATE

68.2% PROCESSED 2000 ITERATIONS 14 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 55373 TO 61867
PROJECTED ANSWERS: 139 TO 681

L17 14 SEA SSS SAM L16

=> s l16 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 17:47:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 59594 TO ITERATE

100.0% PROCESSED 59594 ITERATIONS 232 ANSWERS
SEARCH TIME: 00.00.01

L18 232 SEA SSS FUL L16

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	179.28	560.77
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.60

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FILE COVERS 1907 - 5 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 4 Sep 2008 (20080904/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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=> s l18

L19 2 L18

=> s l19 and otsomaa, l?/au

5 OTSOMAA, L?/AU

L20 2 L19 AND OTSOMAA, L?/AU

=> d l20, ibib abs hitstr, 1-2

L20 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:606465 HCAPLUS

DOCUMENT NUMBER: 141:157037

TITLE: Preparation of pyridine derivatives useful for inhibiting sodium/calcium exchange system

INVENTOR(S): Otsomaa, Leena; Koskelainen, Tuula; Karjalainen, Arto; Rasku, Sirpa; Pollesello, Piero; Levijoki, Jouko

PATENT ASSIGNEE(S): Orion Corporation, Finland

SOURCE: PCT Int. Appl., 108 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

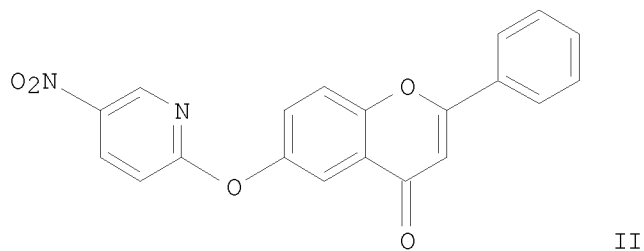
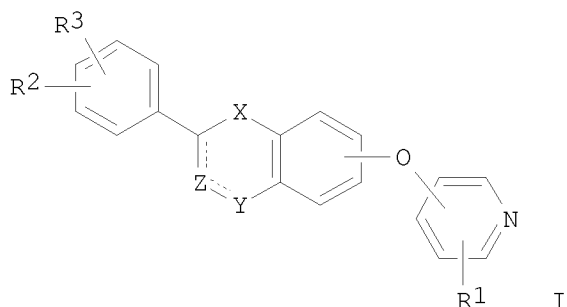
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004063191	A1	20040729	WO 2004-FI11	20040109
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
AU 2004203943	A1	20040729	AU 2004-203943	20040109
CA 2512184	A1	20040729	CA 2004-2512184	20040109
EP 1583759	A1	20051012	EP 2004-701023	20040109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

Updated Search

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IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK							
BR	2004006669	A	20051220	BR	2004-6669		20040109
CN	1745078	A	20060308	CN	2004-80003357		20040109
JP	2006516271	T	20060629	JP	2006-500151		20040109
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ZA	2005005461	A	20060329	ZA	2005-5461		20060124
PRIORITY APPLN. INFO.:				FI	2003-30	A	20030109
OTHER SOURCE(S):				WO	2004-FI11	W	20040109
GI							
MARPAT 141:157037							



AB Title compds. I [X = O, CH₂, CO; Z = divalent alkyl, bond; Y = CH₂, CO, divalent alkyl, etc.; R₂-3 = H, alkyl, alkoxy, etc.; R₁ = H, CN, halo, etc. with provisos] are prepared For instance, II is prepared from 2-chloro-5-nitropyridine and 6-hydroxyflavone (DMF, 120°, 30 min). I are potent inhibitors of Na⁺/Ca²⁺ exchange mechanism.

IT 728934-90-5P, 2-[2-[3-((5-Nitropyridin-2-yl)oxy)phenyl]chroman-6-yloxy]-5-nitropyridine 728935-16-8P, 5-Nitro-2-[2-(3-benzyloxyphenyl)chroman-6-yloxy]pyridine 728935-24-8P, 6-((5-Nitropyridin-2-yl)oxy)-2-[4-((5-nitropyridin-2-yl)oxy)phenyl]chroman-4-ol 728935-38-4P, 3-[6-((5-Aminopyridin-2-yl)oxy)chroman-2-yl]phenol 728936-48-9P, 2-Chloro-N-[6-(2-phenylchroman-6-yloxy)pyridin-3-yl]acetamide 728936-80-9P, 2-(3-Hydroxypiperidin-

Updated Search

10541677

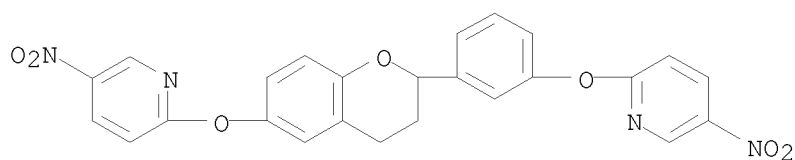
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RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of pyridine derivs. useful for inhibiting sodium/calcium exchange system)

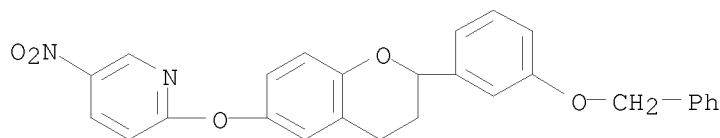
RN 728934-90-5 HCAPLUS

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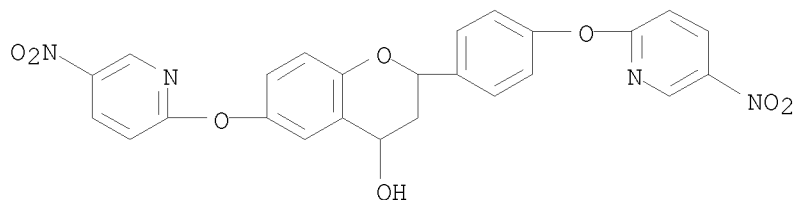
RN 728935-16-8 HCAPLUS

CN Pyridine, 2-[[3,4-dihydro-2-[3-(phenylmethoxy)phenyl]-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 728935-24-8 HCAPLUS

CN 2H-1-Benzopyran-4-ol, 3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2-[4-[(5-nitro-2-pyridinyl)oxy]phenyl]- (CA INDEX NAME)

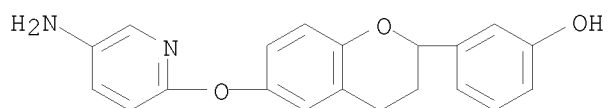


RN 728935-38-4 HCAPLUS

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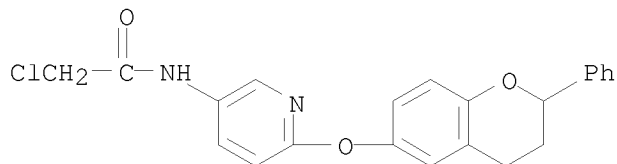
Updated Search

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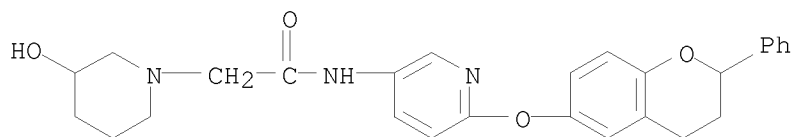
RN 728936-48-9 HCAPLUS

CN Acetamide, 2-chloro-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 728936-80-9 HCAPLUS

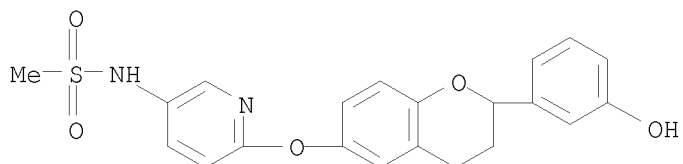
CN 1-Piperidineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-3-hydroxy-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 728937-13-1 HCAPLUS

CN Methanesulfonamide, N-[6-[[3,4-dihydro-2-(3-hydroxyphenyl)-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)

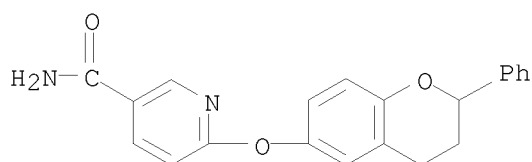


RN 728937-42-6 HCAPLUS

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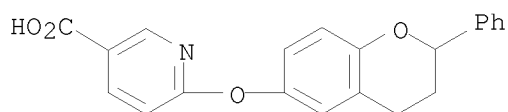
Updated Search

10541677



RN 728937-53-9 HCAPLUS

CN 3-Pyridinecarboxylic acid, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



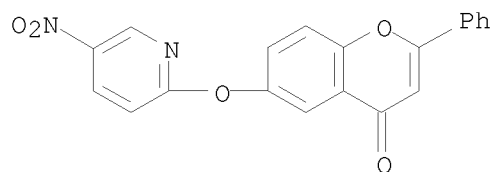
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5-Nitro-2-[2-[3-((pyridin-2-yl)oxy)phenyl]chroman-6-yloxy]pyridine
728935-22-6P, 6-((5-Nitropyridin-2-yl)oxy)-2-[3-((5-nitropyridin-2-yl)oxy)phenyl]chroman-4-ol 728935-27-1P, 2-[2-[4-((5-Nitropyridin-2-yl)oxy)phenyl]chroman-6-yloxy]-5-nitropyridine
728935-30-6P, 6-[2-[3-((5-Aminopyridin-2-yl)oxy)phenyl]chroman-6-yloxy]pyridin-3-ylamine dihydrochloride 728935-34-0P,
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Updated Search

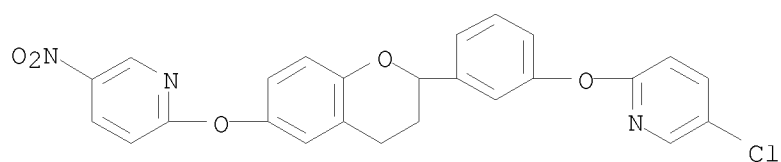
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 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of pyridine derivs. useful for inhibiting sodium/calcium exchange system)

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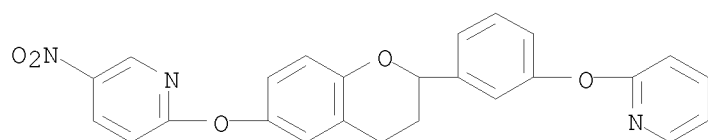
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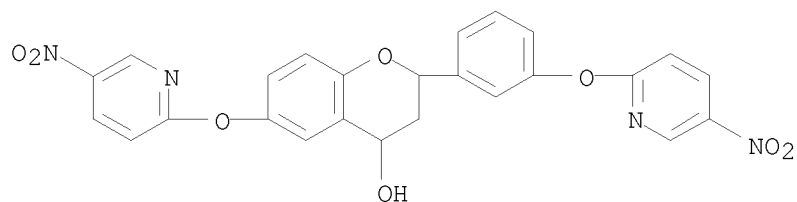
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CN Pyridine, 5-chloro-2-[3-[3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2H-1-benzopyran-2-yl]phenoxy]- (CA INDEX NAME)



RN 728935-20-4 HCAPLUS
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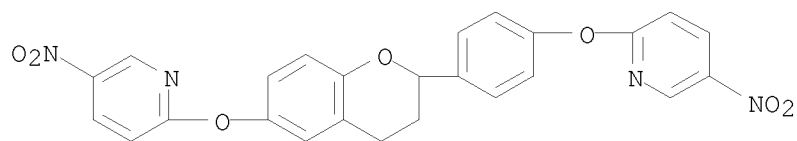
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RN 728935-27-1 HCAPLUS
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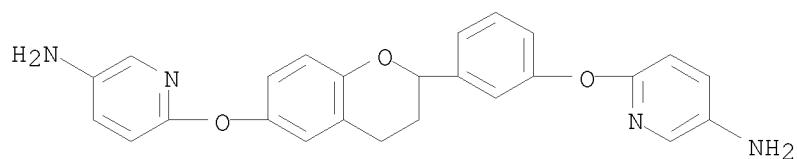
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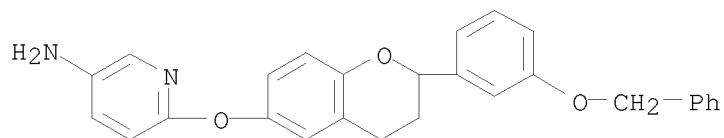
CN 3-Pyridinamine, 6-[3-[6-[(5-amino-2-pyridinyl)oxy]-3,4-dihydro-2H-1-benzopyran-2-yl]phenoxy]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 728935-34-0 HCAPLUS

CN 3-Pyridinamine, 6-[[3,4-dihydro-2-[3-(phenylmethoxy)phenyl]-2H-1-benzopyran-6-yl]oxy]-, hydrochloride (1:1) (CA INDEX NAME)



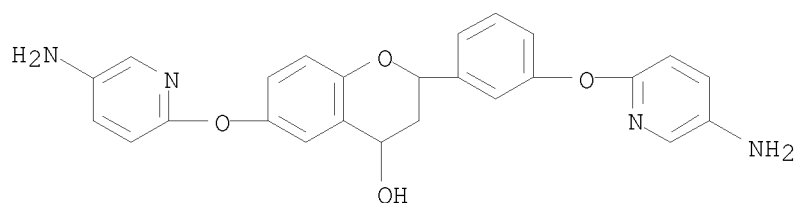
● HCl

RN 728935-37-3 HCAPLUS

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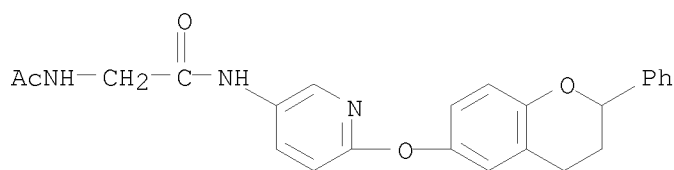
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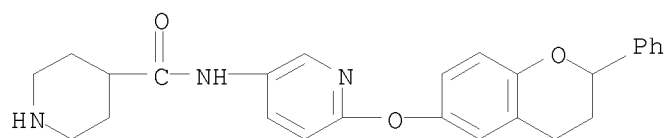


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RN 728935-40-8 HCAPLUS
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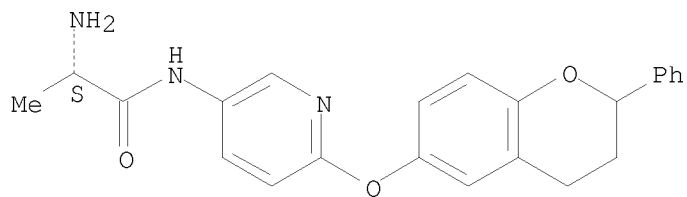


RN 728935-42-0 HCAPLUS
CN 4-Piperidinecarboxamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 728935-52-2 HCAPLUS
CN Propanamide, 2-amino-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1), (2S)- (CA INDEX NAME)

Absolute stereochemistry.



● HCl

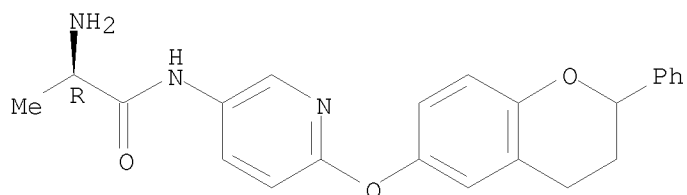
Updated Search

10541677

RN 728935-54-4 HCAPLUS

CN Propanamide, 2-amino-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1), (2R)- (CA INDEX NAME)

Absolute stereochemistry.

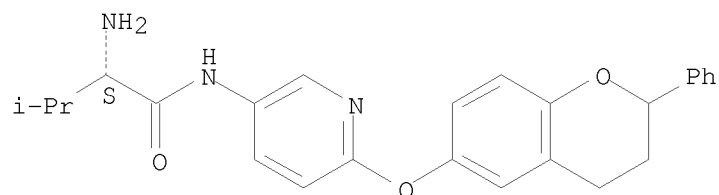


● HCl

RN 728935-60-2 HCAPLUS

CN Butanamide, 2-amino-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-3-methyl-, (2S)- (CA INDEX NAME)

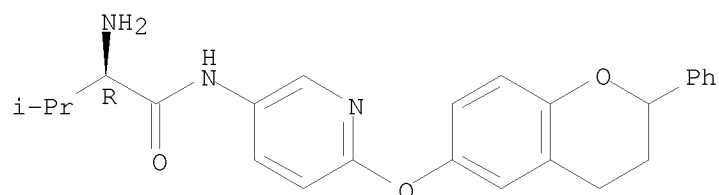
Absolute stereochemistry.



RN 728935-62-4 HCAPLUS

CN Butanamide, 2-amino-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-3-methyl-, hydrochloride (1:1), (2R)- (CA INDEX NAME)

Absolute stereochemistry.



● HCl

RN 728935-68-0 HCAPLUS

CN Butanamide, 2-amino-N-[6-[[3,4-dihydro-2-[3-[(5-nitro-2-pyridinyl)oxy]phenyl]-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]-3-methyl-,

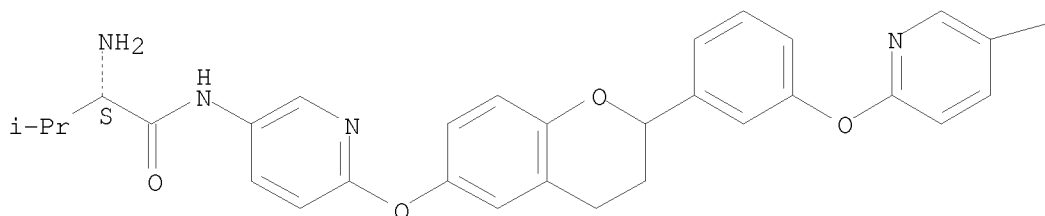
Updated Search

10541677

hydrochloride (1:1), (2S)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



● HCl

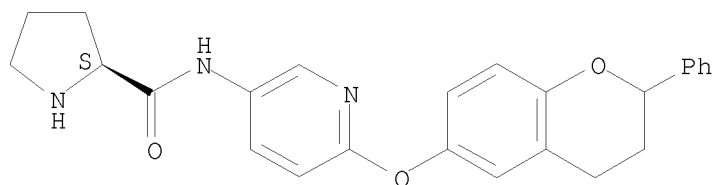
PAGE 1-B

 —NO_2

RN 728935-89-5 HCAPLUS

2-Pyrrolidinecarboxamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1), (2S)- (CA INDEX NAME)

Absolute stereochemistry.



● HCl

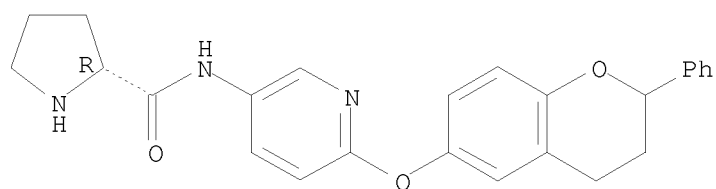
RN 728935-91-9 HCAPLUS

CN 2-Pyrrolidinecarboxamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1), (2R)- (CA INDEX NAME)

Absolute stereochemistry.

Updated Search

10541677

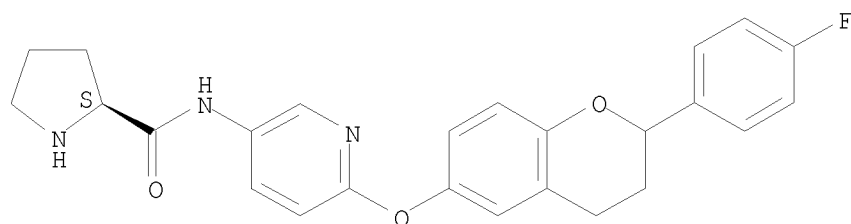


● HCl

RN 728935-94-2 HCAPLUS

CN 2-Pyrrolidinecarboxamide, N-[6-[[2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]-, (2S)- (CA INDEX NAME)

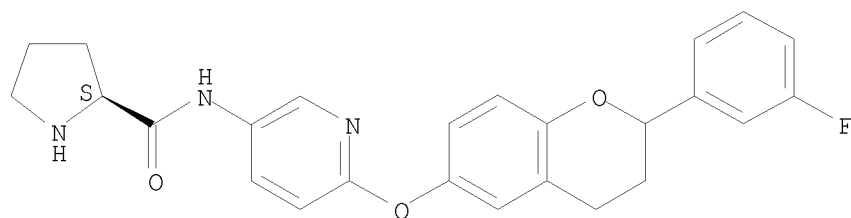
Absolute stereochemistry.



RN 728935-96-4 HCAPLUS

CN 2-Pyrrolidinecarboxamide, N-[6-[[2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]-, hydrochloride (1:1), (2S)- (CA INDEX NAME)

Absolute stereochemistry.



● HCl

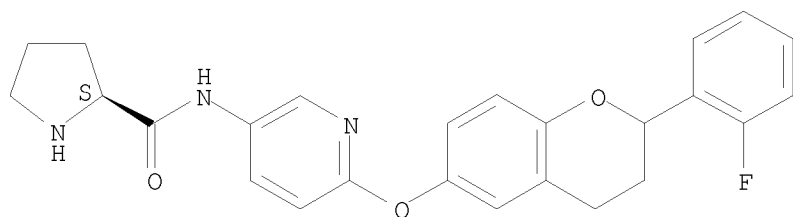
RN 728935-98-6 HCAPLUS

CN 2-Pyrrolidinecarboxamide, N-[6-[[2-(2-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]-, hydrochloride (1:1), (2S)- (CA INDEX NAME)

Absolute stereochemistry.

Updated Search

10541677

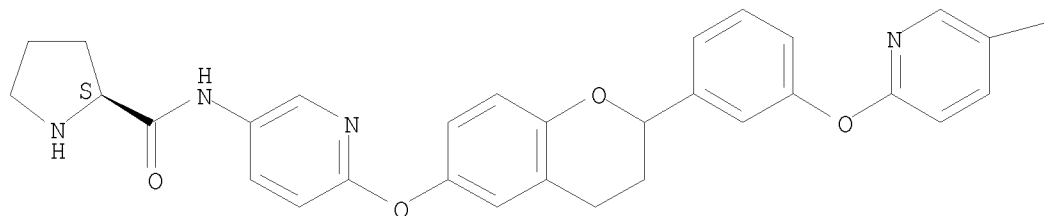


● HCl

RN 728936-00-3 HCAPLUS
CN 2-Pyrrolidinecarboxamide, N-[6-[[3,4-dihydro-2-[3-[(5-nitro-2-pyridinyl)oxy]phenyl]-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—NO₂

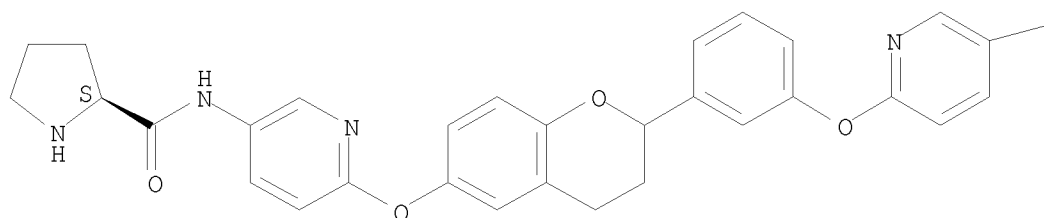
RN 728936-06-9 HCAPLUS
CN 2-Pyrrolidinecarboxamide, N-[6-[[3,4-dihydro-2-[3-[(5-nitro-2-pyridinyl)oxy]phenyl]-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]-, hydrochloride (1:1), (2S)- (CA INDEX NAME)

Absolute stereochemistry.

Updated Search

10541677

PAGE 1-A



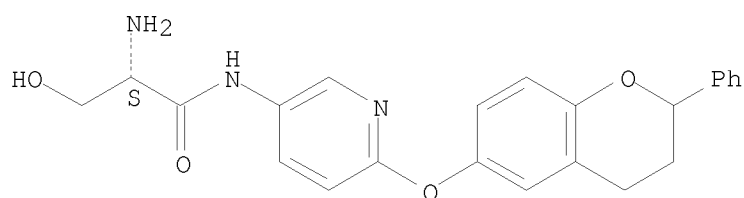
● HCl

PAGE 1-B

—NO₂

RN 728936-08-1 HCAPLUS
CN Propanamide, 2-amino-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-3-hydroxy-, hydrochloride (1:1), (2S)- (CA INDEX NAME)

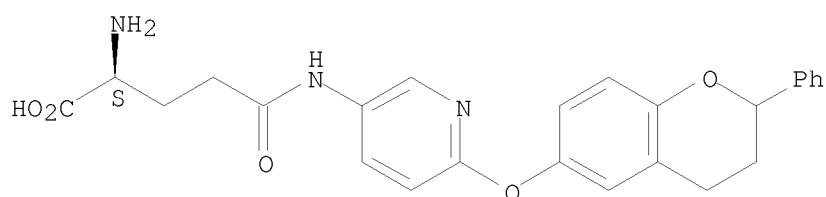
Absolute stereochemistry.



● HCl

RN 728936-13-8 HCAPLUS
CN L-Glutamine, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)

Absolute stereochemistry.



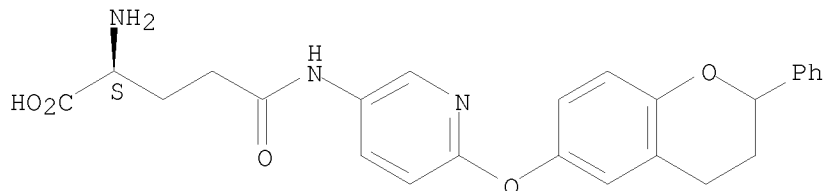
RN 728936-19-4 HCAPLUS

Updated Search

10541677

CN L-Glutamine, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

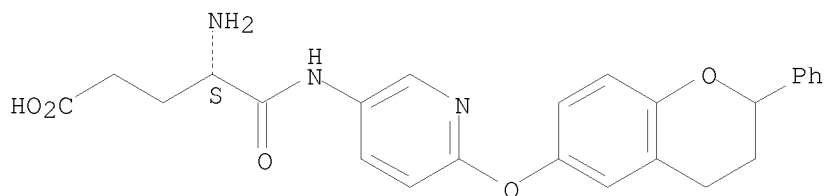
Absolute stereochemistry.



RN 728936-21-8 HCAPLUS

CN Pentanoic acid, 4-amino-5-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]-5-oxo-, (4S)- (CA INDEX NAME)

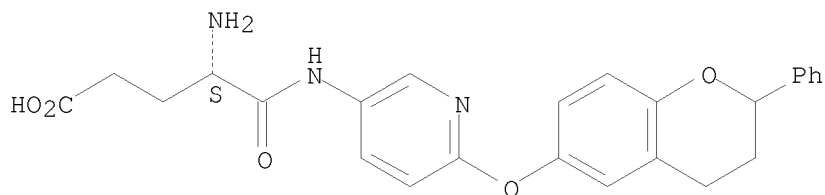
Absolute stereochemistry.



RN 728936-28-5 HCAPLUS

CN Pentanoic acid, 4-amino-5-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]-5-oxo-, hydrochloride (1:1), (4S)- (CA INDEX NAME)

Absolute stereochemistry.



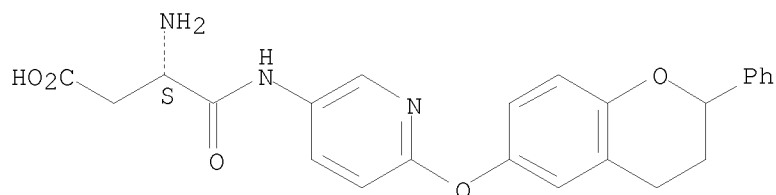
RN 728936-30-9 HCAPLUS

CN Butanoic acid, 3-amino-4-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]-4-oxo-, (3S)- (CA INDEX NAME)

Updated Search

10541677

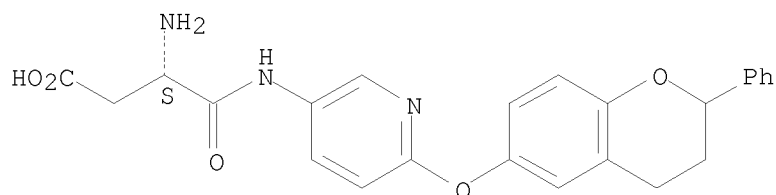
Absolute stereochemistry.



RN 728936-36-5 HCAPLUS

CN Butanoic acid, 3-amino-4-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]-4-oxo-, hydrochloride (1:1), (3S)- (CA INDEX NAME)

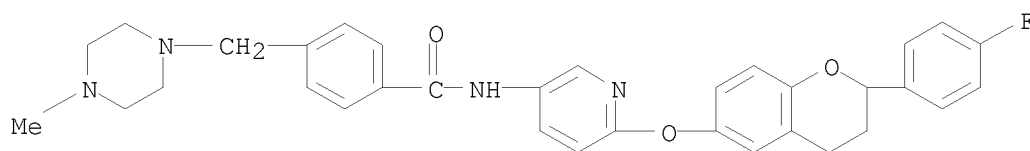
Absolute stereochemistry.



● HCl

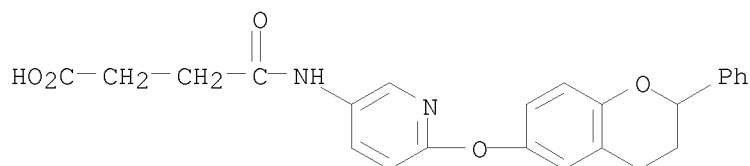
RN 728936-41-2 HCAPLUS

CN Benzamide, N-[6-[[2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]-4-[(4-methyl-1-piperazinyl)methyl]- (CA INDEX NAME)



RN 728936-45-6 HCAPLUS

CN Butanoic acid, 4-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]-4-oxo- (CA INDEX NAME)

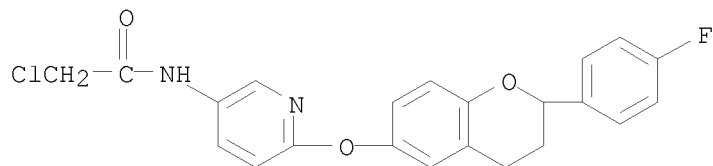


Updated Search

10541677

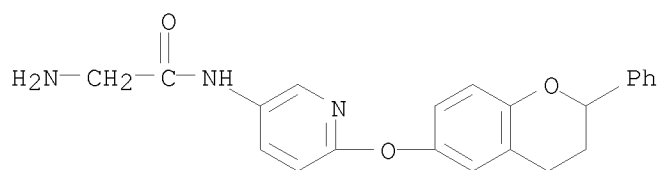
RN 728936-50-3 HCAPLUS

CN Acetamide, 2-chloro-N-[6-[[2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)



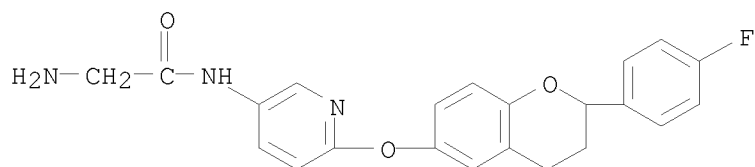
RN 728936-53-6 HCAPLUS

CN Acetamide, 2-amino-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1) (CA INDEX NAME)



RN 728936-60-5 HCAPLUS

CN Acetamide, 2-amino-N-[6-[[2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)

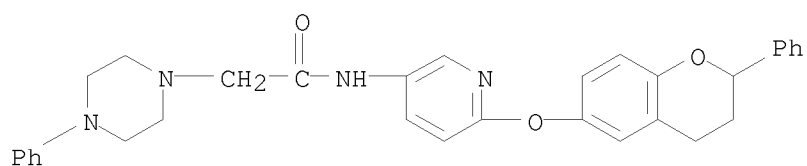


RN 728936-62-7 HCAPLUS

CN 1-Piperazineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-4-phenyl-, hydrochloride (1:2) (CA INDEX NAME)

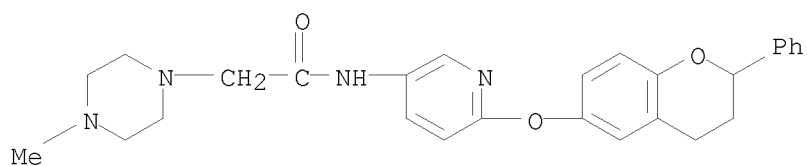
Updated Search

10541677



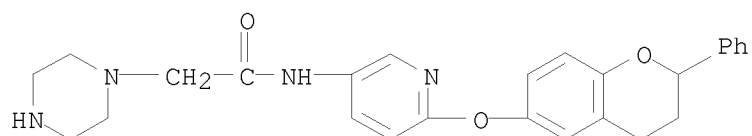
● 2 HCl

RN 728936-64-9 HCAPLUS
CN 1-Piperazineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-4-methyl-, hydrochloride (1:2) (CA INDEX NAME)



● 2 HCl

RN 728936-66-1 HCAPLUS
CN 1-Piperazineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:2) (CA INDEX NAME)

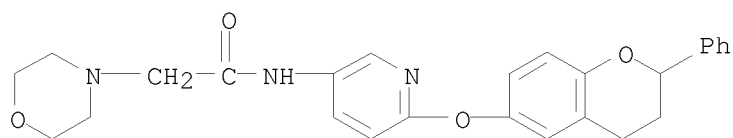


● 2 HCl

RN 728936-68-3 HCAPLUS
CN 4-Morpholineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:2) (CA INDEX NAME)

Updated Search

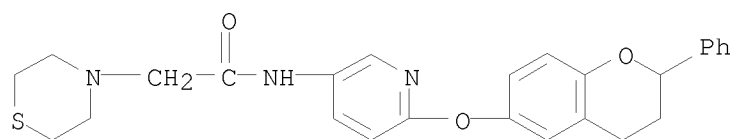
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● 2 HCl

RN 728936-70-7 HCAPLUS

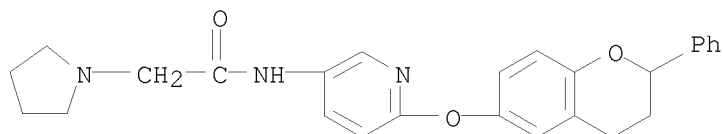
CN 4-Thiomorpholineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:2) (CA INDEX NAME)



● 2 HCl

RN 728936-72-9 HCAPLUS

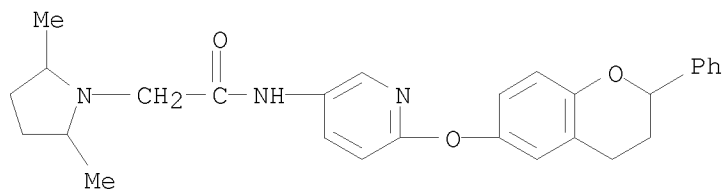
CN 1-Pyrrolidineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:2) (CA INDEX NAME)



● 2 HCl

RN 728936-74-1 HCAPLUS

CN 1-Pyrrolidineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-2,5-dimethyl- (CA INDEX NAME)

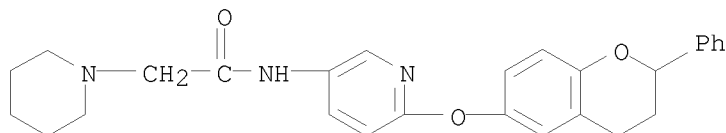


Updated Search

10541677

RN 728936-76-3 HCAPLUS

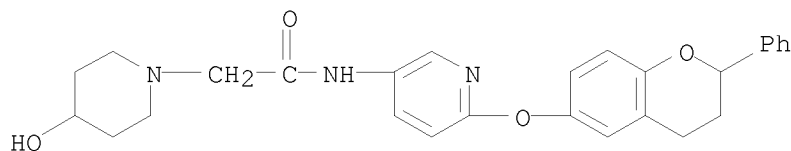
CN 1-Piperidineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 728936-78-5 HCAPLUS

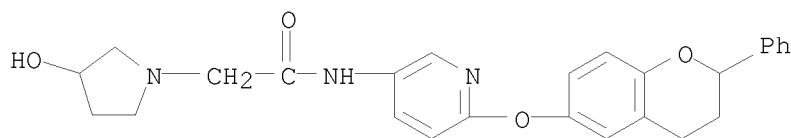
CN 1-Piperidineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-4-hydroxy-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 728936-82-1 HCAPLUS

CN 1-Pyrrolidineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-3-hydroxy-, hydrochloride (1:1) (CA INDEX NAME)



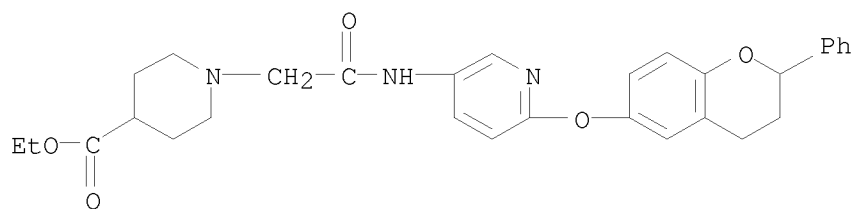
● HCl

RN 728936-84-3 HCAPLUS

CN 4-Piperidinecarboxylic acid, 1-[2-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]-2-oxoethyl]-, ethyl ester, hydrochloride (1:1) (CA INDEX NAME)

Updated Search

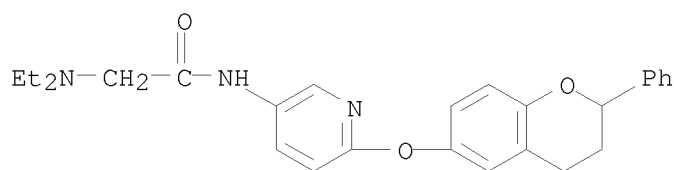
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● HCl

RN 728936-86-5 HCAPLUS

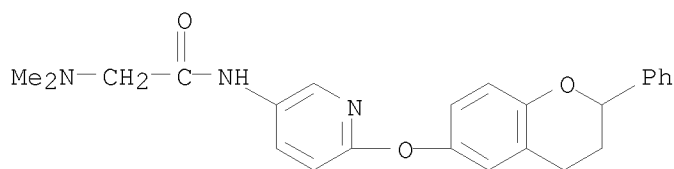
CN Acetamide, 2-(diethylamino)-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 728936-88-7 HCAPLUS

CN Acetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-2-(dimethylamino)-, hydrochloride (1:1) (CA INDEX NAME)



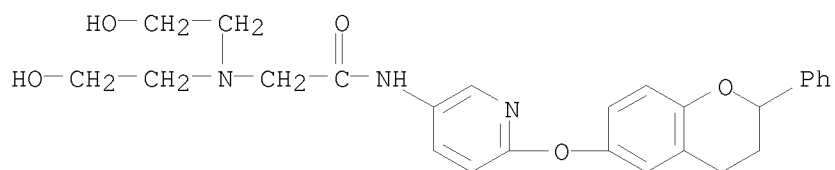
● HCl

RN 728936-90-1 HCAPLUS

CN Acetamide, 2-[bis(2-hydroxyethyl)amino]-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)

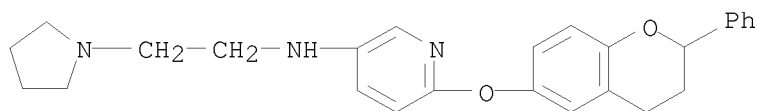
Updated Search

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RN 728936-92-3 HCAPLUS

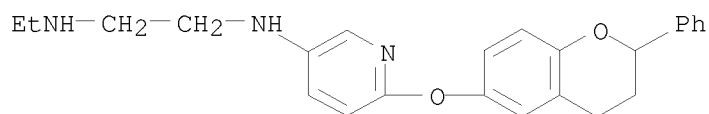
CN 3-Pyridinamine, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-N-[2-(1-pyrrolidiny)ethyl]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 728936-96-7 HCAPLUS

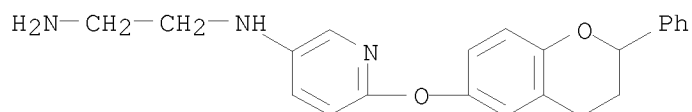
CN 1,2-Ethanediamine, N1-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-N2-ethyl-, hydrochloride (1:2) (CA INDEX NAME)



● 2 HCl

RN 728936-98-9 HCAPLUS

CN 1,2-Ethanediamine, N1-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:2) (CA INDEX NAME)



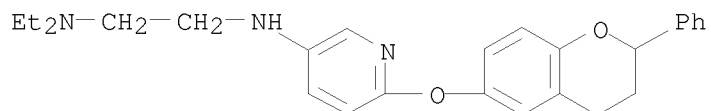
● 2 HCl

RN 728937-00-6 HCAPLUS

CN 1,2-Ethanediamine, N2-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-N1,N1-diethyl-, hydrochloride (1:2) (CA INDEX NAME)

Updated Search

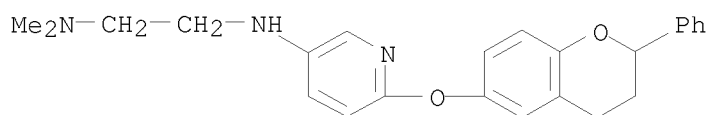
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● 2 HCl

RN 728937-02-8 HCAPLUS

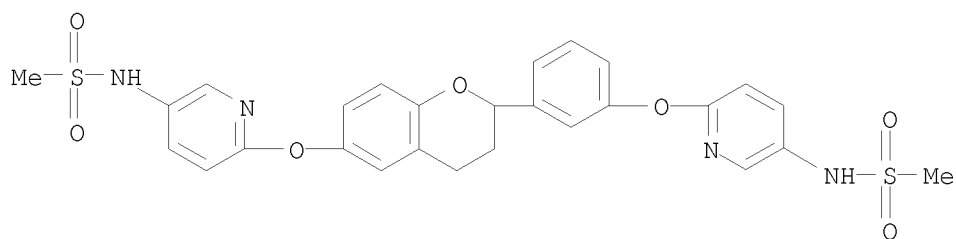
CN 1,2-Ethanediamine, N2-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-N1,N1-dimethyl-, hydrochloride (1:2) (CA INDEX NAME)



● 2 HCl

RN 728937-04-0 HCAPLUS

CN Methanesulfonamide, N-[6-[3-[3,4-dihydro-6-[[5-[(methanesulfonyl)amino]-2-pyridinyl]oxy]-2H-1-benzopyran-2-yl]phenoxy]-3-pyridinyl]- (CA INDEX NAME)

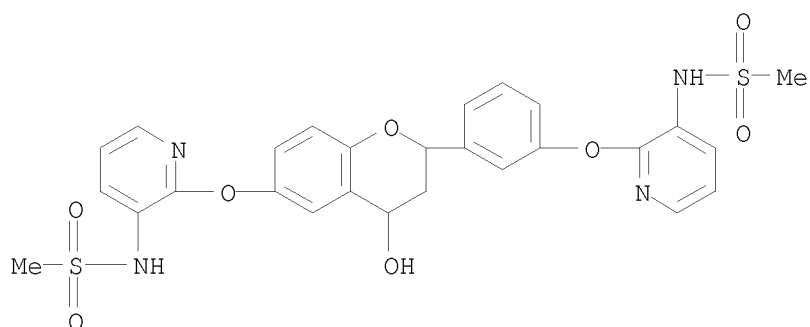


RN 728937-09-5 HCAPLUS

CN Methanesulfonamide, N-[2-[3-[3,4-dihydro-4-hydroxy-6-[[3-[(methanesulfonyl)amino]-2-pyridinyl]oxy]-2H-1-benzopyran-2-yl]phenoxy]-3-pyridinyl]- (CA INDEX NAME)

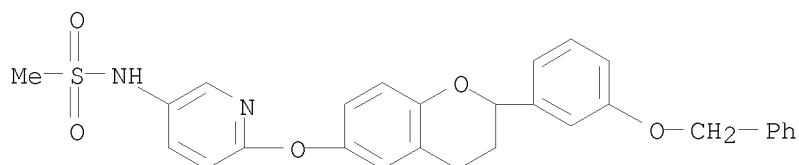
Updated Search

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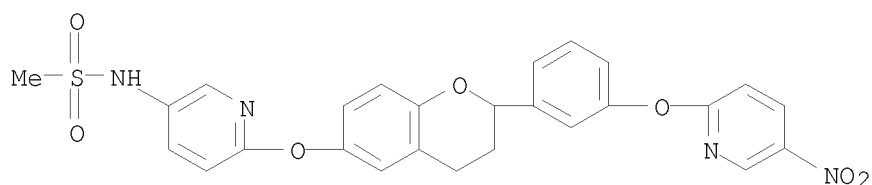
RN 728937-11-9 HCAPLUS

CN Methanesulfonamide, N-[6-[[[3,4-dihydro-2-[3-(phenylmethoxy)phenyl]-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)



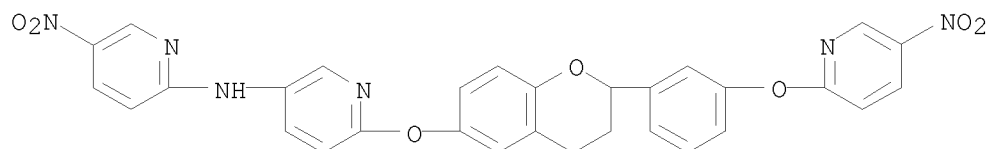
RN 728937-15-3 HCAPLUS

CN Methanesulfonamide, N-[6-[[[3,4-dihydro-2-[3-[(5-nitro-2-pyridinyl)oxy]phenyl]-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 728937-17-5 HCAPLUS

CN 3-Pyridinamine, 6-[[[3,4-dihydro-2-[3-[(5-nitro-2-pyridinyl)oxy]phenyl]-2H-1-benzopyran-6-yl]oxy]-N-(5-nitro-2-pyridinyl)- (CA INDEX NAME)



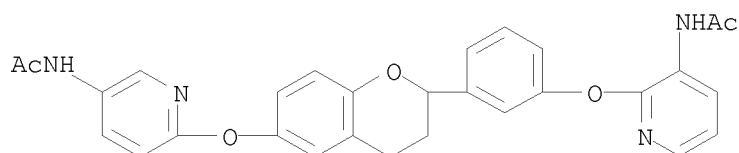
RN 728937-19-7 HCAPLUS

CN Acetamide, N-[2-[3-[6-[[[5-(acetamino)-2-pyridinyl]oxy]-3,4-dihydro-2H-1-

Updated Search

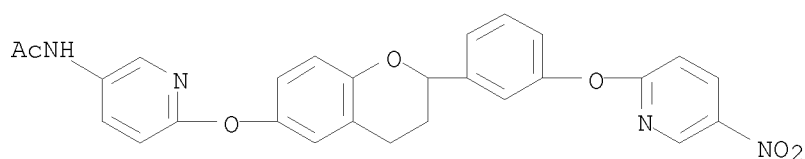
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benzopyran-2-yl]phenoxy]-3-pyridinyl]- (CA INDEX NAME)



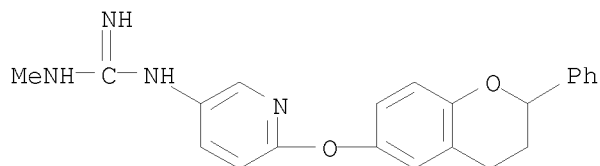
RN 728937-21-1 HCAPLUS

CN Acetamide, N-[6-[[3,4-dihydro-2-[(5-nitro-2-pyridinyl)oxy]phenyl]-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)



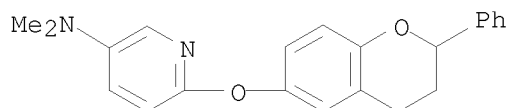
RN 728937-25-5 HCAPLUS

CN Guanidine, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-N'-methyl- (CA INDEX NAME)



RN 728937-27-7 HCAPLUS

CN 3-Pyridinamine, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-N,N-dimethyl- (CA INDEX NAME)

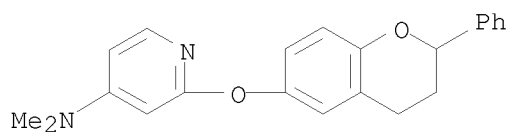


RN 728937-29-9 HCAPLUS

CN 4-Pyridinamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-N,N-dimethyl-, hydrochloride (1:1) (CA INDEX NAME)

Updated Search

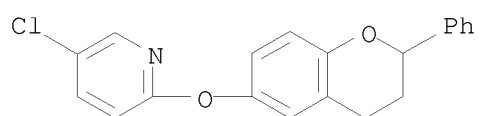
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● HCl

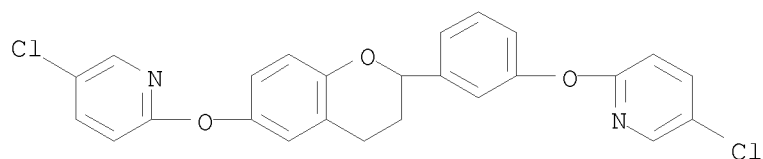
RN 728937-31-3 HCAPLUS

CN Pyridine, 5-chloro-2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-
(CA INDEX NAME)



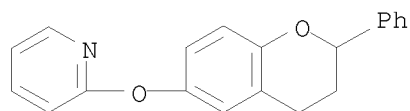
RN 728937-33-5 HCAPLUS

CN Pyridine, 5-chloro-2-[3-[6-[(5-chloro-2-pyridinyl)oxy]-3,4-dihydro-2H-1-benzopyran-2-yl]phenoxy]- (CA INDEX NAME)



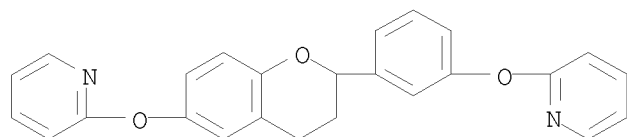
RN 728937-35-7 HCAPLUS

CN Pyridine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



RN 728937-37-9 HCAPLUS

CN Pyridine, 2-[3-[3,4-dihydro-6-(2-pyridinyloxy)-2H-1-benzopyran-2-yl]phenoxy]- (CA INDEX NAME)

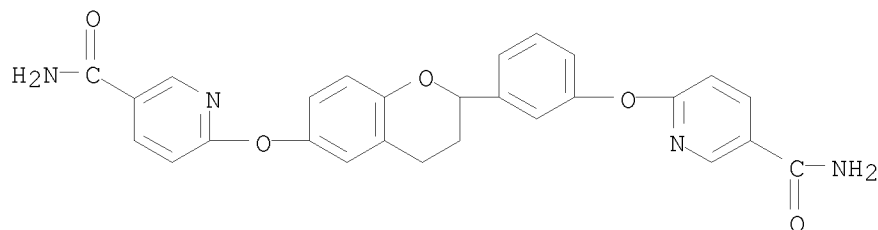


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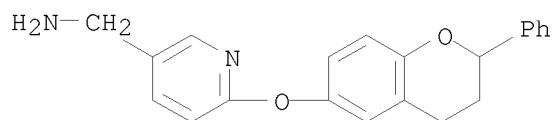
RN 728937-44-8 HCAPLUS

CN 3-Pyridinecarboxamide, 6-[3-[6-[[5-(aminocarbonyl)-2-pyridinyl]oxy]-3,4-dihydro-2H-1-benzopyran-2-yl]phenoxy]- (CA INDEX NAME)



RN 728937-46-0 HCAPLUS

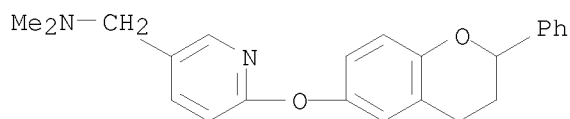
CN 3-Pyridinemethanamine, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

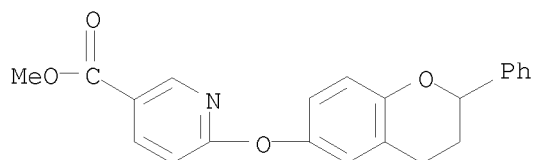
RN 728937-48-2 HCAPLUS

CN 3-Pyridinemethanamine, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-N,N-dimethyl- (CA INDEX NAME)



RN 728937-51-7 HCAPLUS

CN 3-Pyridinecarboxylic acid, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-, methyl ester (CA INDEX NAME)

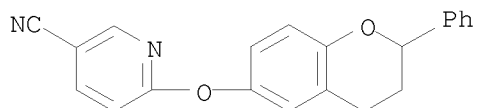


RN 728937-55-1 HCAPLUS

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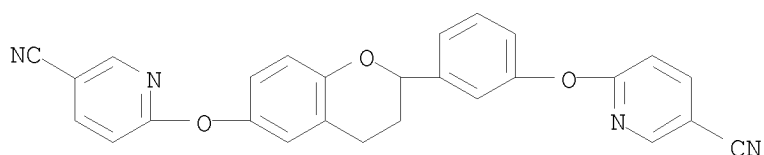
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CN 3-Pyridinecarbonitrile, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-
(CA INDEX NAME)



RN 728937-57-3 HCAPLUS

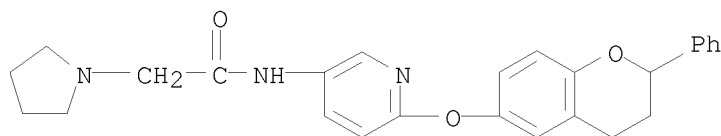
CN 3-Pyridinecarbonitrile, 6-[3-[6-[(5-cyano-2-pyridinyl)oxy]-3,4-dihydro-2H-1-benzopyran-2-yl]phenoxy]- (CA INDEX NAME)



IT 728936-94-5, N-[6-(2-Phenylchroman-6-yloxy)pyridin-3-yl]-2-(pyrrolidin-1-yl)acetamide 728937-07-3, 6-[2-[3-[(5-Aminopyridin-2-yl)oxy]phenyl]chroman-6-yloxy]pyridin-3-ylamine
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of pyridine derivs. useful for inhibiting sodium/calcium exchange system)

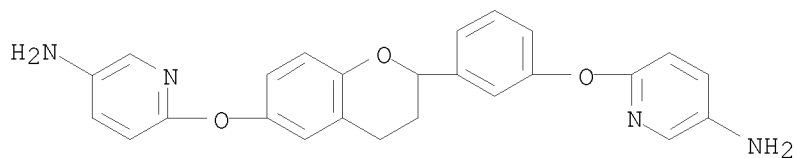
RN 728936-94-5 HCAPLUS

CN 1-Pyrrolidineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 728937-07-3 HCAPLUS

CN 3-Pyridinamine, 6-[3-[6-[(5-amino-2-pyridinyl)oxy]-3,4-dihydro-2H-1-benzopyran-2-yl]phenoxy]- (CA INDEX NAME)



IT 488847-28-5P, 5-Nitro-2-(2-phenylchroman-6-yloxy)pyridine
488847-51-4P, 6-(5-Nitropyridin-2-yloxy)-2-phenylchroman-4-one
488847-53-6P, 7-(5-Nitropyridin-2-yloxy)-2-phenylchroman-4-one

Updated Search

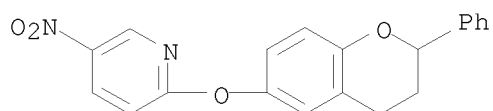
488847-59-2P, 2-[2-(3-Fluorophenyl)chroman-6-yloxy]-5-nitropyridine 488847-69-4P, 5-Nitro-2-(2-phenylchroman-7-yloxy)pyridine 488847-76-3P, 2-[2-(2,4-Dichlorophenyl)chroman-6-yloxy]-5-nitropyridine 488847-84-3P, 2-[2-(3-Chlorophenyl)chroman-6-yloxy]-5-nitropyridine 488847-92-3P, 2-[2-(3,5-Difluorophenyl)chroman-6-yloxy]-5-nitropyridine 488847-98-9P, 2-[2-(2,5-Difluorophenyl)chroman-6-yloxy]-5-nitropyridine 488848-04-0P, 2-[2-(3-Bromophenyl)chroman-6-yloxy]-5-nitropyridine 488848-12-0P, 2-[2-(4-Ethylphenyl)chroman-6-yloxy]-5-nitropyridine 488848-20-0P, 2-(3-Methyl-2-phenylchroman-6-yloxy)-5-nitropyridine 488848-28-8P, 3-Methyl-6-(5-nitropyridin-2-yloxy)-2-phenylchroman-4-one 488848-30-2P, 2-[2-(2-Fluorophenyl)chroman-6-yloxy]-5-nitropyridine 488848-38-0P, 2-(2,3-Dihydro-2-phenylbenzo[1,4]dioxin-6-yloxy)-5-nitropyridine 488848-54-0P, 5-Nitro-2-(6-phenyl-5,6,7,8-tetrahydronaphthalen-2-yloxy)pyridine 488848-55-1P, 6-(5-Nitropyridin-2-yloxy)-2-phenyl-3,4-dihydro-2H-naphthalen-1-one 488848-58-4P
 488849-11-2P, 1-Methyl-3-[6-(2-phenylchroman-6-yloxy)pyridin-3-yl]thiourea 488849-15-6P, 6-[2-(2,5-Difluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-17-8P, 6-[2-(2-Fluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-20-3P, 6-[2-(3-Fluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-22-5P, 6-(5-Aminopyridin-2-yloxy)-2-phenylchroman-4-one 488849-33-8P, 2-[2-(4-Trifluoromethylphenyl)chroman-6-yloxy]-5-nitropyridine 488849-37-2P, 6-[2-(4-Trifluoromethylphenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-43-0P, 2-[2-(2,4-Difluorophenyl)chroman-6-yloxy]-5-nitropyridine 488849-47-4P, 6-[2-(2,4-Difluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-50-9P, 2-[2-(2-Chlorophenyl)chroman-6-yloxy]-5-nitropyridine 488849-55-4P, 2-[2-(4-Fluorophenyl)chroman-6-yloxy]-5-nitropyridine 488849-59-8P, 488849-61-2P, 2-[2-(2,3-Difluorophenyl)chroman-6-yloxy]-5-nitropyridine 488849-71-4P, 2-[3-(3-Fluorophenyl)chroman-7-yloxy]-5-nitropyridine 488849-76-9P, 2-[3-(Phenyl)chroman-7-yloxy]-5-nitropyridine 488849-79-2P, 5-Nitro-2-(2-phenyl-2,3-dihydrobenzo[1,4]oxathiin-6-yloxy)pyridine 488849-84-9P, 5-Nitro-2-[2-(4-nitrophenyl)chroman-6-yloxy]pyridine 488849-88-3P, 6-[2-(4-Aminophenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-89-4P, 5-Nitro-2-[2-(2-nitrophenyl)chroman-6-yloxy]pyridine 488849-93-0P, 6-[2-(2-Aminophenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-95-2P, 5-Nitro-2-[2-(3-nitrophenyl)chroman-6-yloxy]pyridine 488849-98-5P, 6-[2-(3-Aminophenyl)chroman-6-yloxy]pyridin-3-ylamine 488850-05-1P, 2-[2-(3-Methoxyphenyl)chroman-6-yloxy]-5-nitropyridine 488850-09-5P, 6-[2-(3-Methoxyphenyl)chroman-6-yloxy]pyridin-3-ylamine 728934-53-0P, 2-[2-(2,6-Difluorophenyl)chroman-6-yloxy]-5-nitropyridine 728934-56-3P, 2-[2-(2-Trifluoromethylphenyl)chroman-6-yloxy]-5-nitropyridine 728934-60-9P, 2-[2-(3-Chloro-4-fluorophenyl)chroman-6-yloxy]-5-nitropyridine 728934-65-4P, 6-[2-(2,3-Difluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 728934-68-7P, 6-[2-(2,6-Difluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 728934-70-1P, 6-[2-(3,5-Difluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 728934-72-3P, 6-[2-(2-Chlorophenyl)chroman-6-yloxy]pyridin-3-ylamine 728934-75-6P, 6-(2-Phenyl-2,3-dihydrobenzo[1,4]oxathiin-6-yloxy)pyridin-3-ylamine hydrochloride 728934-77-8P,

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6-(5-Aminopyridin-2-yloxy)-2-phenylchromen-4-one 728934-80-3P,
6-[2-[3-(Pyridin-2-yloxy)phenyl]chroman-6-yloxy]pyridin-3-ylamine
728935-44-2P, 4-[[6-(2-Phenylchroman-6-yloxy)pyridin-3-
yl]carbamoyl]piperidine-1-carboxylic acid tert-butyl ester
728935-46-4P, [1-[[6-(2-Phenylchroman-6-yloxy)pyridin-3-
yl]carbamoyl]ethyl]carbamic acid tert-butyl ester 728935-48-6P
728935-50-0P 728935-56-6P 728935-58-8P
728935-71-5P 728935-74-8P 728935-77-1P
728935-80-6P 728935-83-9P 728935-85-1P
728935-87-3P 728936-02-5P 728936-04-7P
728936-11-6P 728936-17-2P 728936-25-2P
728936-34-3P 728936-56-9P 728936-58-1P,
N-[6-[2-(4-Fluorophenyl)chroman-6-yloxy]pyridin-3-yl]-2-azidoacetamide
728937-23-3P, N-[6-[2-(3-Hydroxyphenyl)chroman-6-yloxy]pyridin-3-
yl]acetamide
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of pyridine derivs. useful for inhibiting sodium/calcium
exchange system)

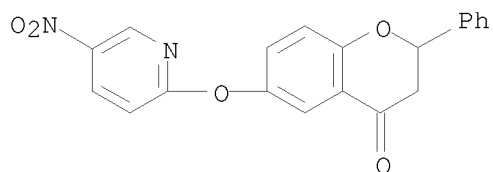
RN 488847-28-5 HCAPLUS

CN Pyridine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA
INDEX NAME)



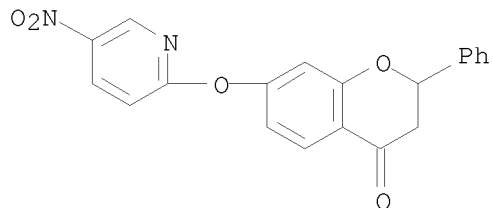
RN 488847-51-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl-
(CA INDEX NAME)



RN 488847-53-6 HCAPLUS

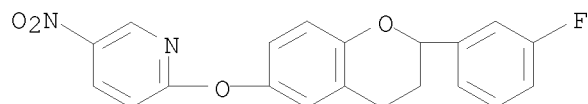
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-7-[(5-nitro-2-pyridinyl)oxy]-2-phenyl-
(CA INDEX NAME)



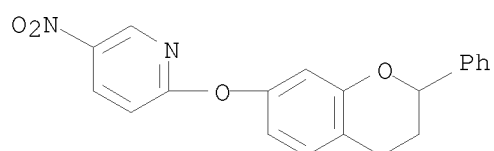
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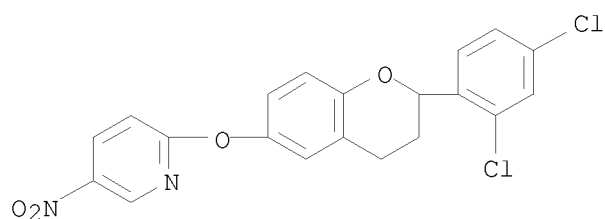
RN 488847-59-2 HCAPLUS
CN Pyridine, 2-[[2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



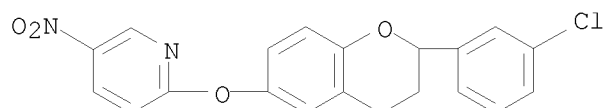
RN 488847-69-4 HCAPLUS
CN Pyridine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-7-yl)oxy]-5-nitro- (CA INDEX NAME)



RN 488847-76-3 HCAPLUS
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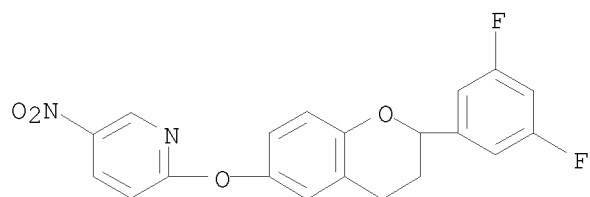
RN 488847-84-3 HCAPLUS
CN Pyridine, 2-[[2-(3-chlorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 488847-92-3 HCAPLUS
CN Pyridine, 2-[[2-(3,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)

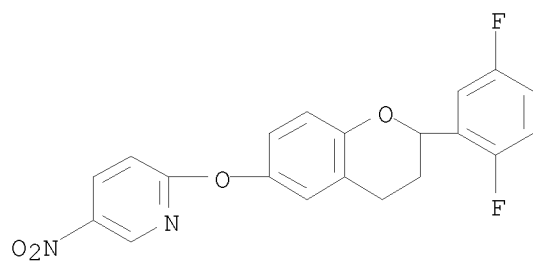
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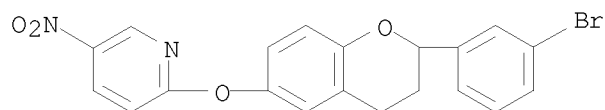
RN 488847-98-9 HCAPLUS

CN Pyridine, 2-[[2-(2,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



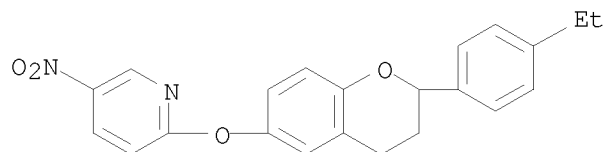
RN 488848-04-0 HCAPLUS

CN Pyridine, 2-[[2-(3-bromophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 488848-12-0 HCAPLUS

CN Pyridine, 2-[[2-(4-ethylphenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)

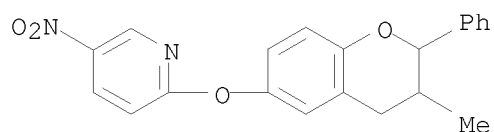


RN 488848-20-0 HCAPLUS

CN Pyridine, 2-[(3,4-dihydro-3-methyl-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)

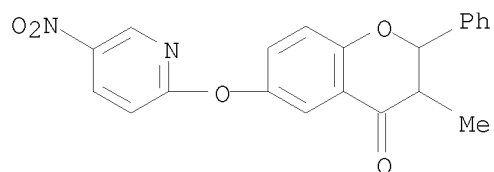
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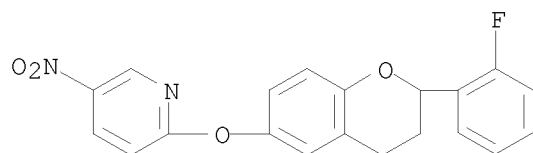
RN 488848-28-8 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-3-methyl-6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl- (CA INDEX NAME)



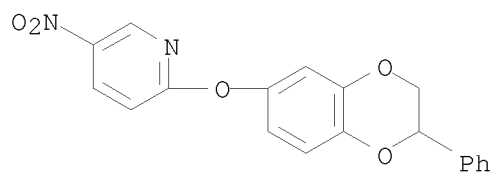
RN 488848-30-2 HCAPLUS

CN Pyridine, 2-[[2-(2-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 488848-38-0 HCAPLUS

CN Pyridine, 2-[[2-(2-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)

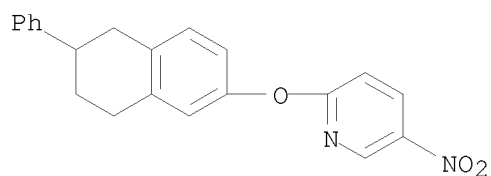


RN 488848-54-0 HCAPLUS

CN Pyridine, 5-nitro-2-[(5,6,7,8-tetrahydro-6-phenyl-2-naphthalenyl)oxy]- (CA INDEX NAME)

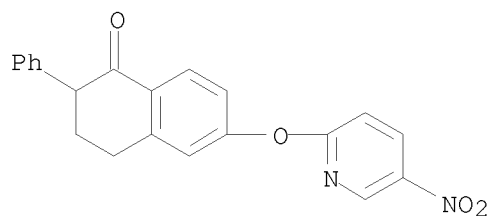
Updated Search

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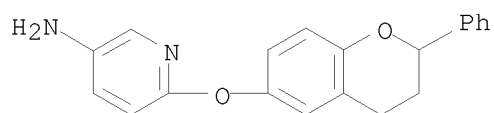
RN 488848-55-1 HCAPLUS

CN 1(2H)-Naphthalenone, 3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl-
(CA INDEX NAME)



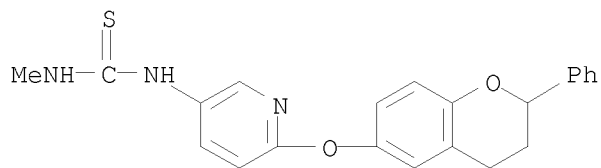
RN 488848-58-4 HCAPLUS

CN 3-Pyridinamine, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA
INDEX NAME)



RN 488849-11-2 HCAPLUS

CN Thiourea, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-
pyridinyl]-N'-methyl- (CA INDEX NAME)

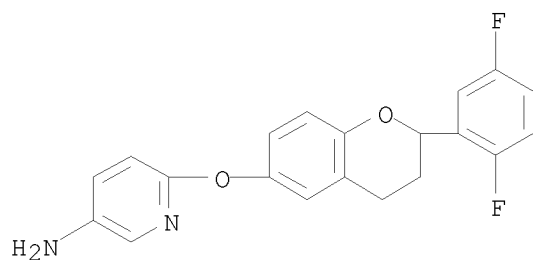


RN 488849-15-6 HCAPLUS

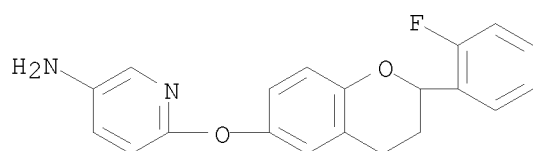
CN 3-Pyridinamine, 6-[[2-(2,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-
yl]oxy]- (CA INDEX NAME)

Updated Search

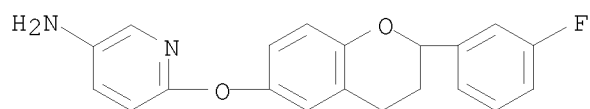
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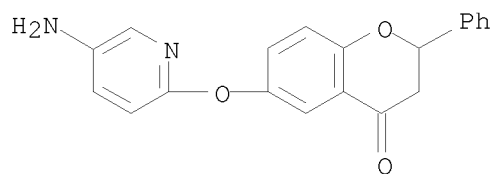
RN 488849-17-8 HCAPLUS
CN 3-Pyridinamine, 6-[[2-(2-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



RN 488849-20-3 HCAPLUS
CN 3-Pyridinamine, 6-[[2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



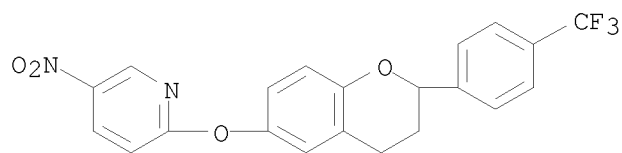
RN 488849-22-5 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[(5-amino-2-pyridinyl)oxy]-2,3-dihydro-2-phenyl- (CA INDEX NAME)



RN 488849-33-8 HCAPLUS
CN Pyridine, 2-[[3,4-dihydro-2-[4-(trifluoromethyl)phenyl]-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)

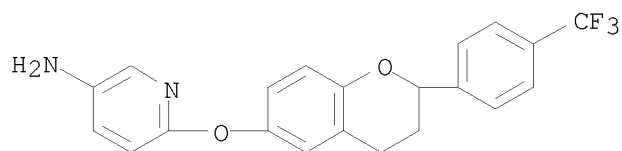
Updated Search

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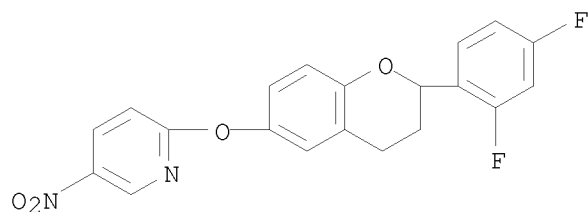
RN 488849-37-2 HCAPLUS

CN 3-Pyridinamine, 6-[[3,4-dihydro-2-[4-(trifluoromethyl)phenyl]-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



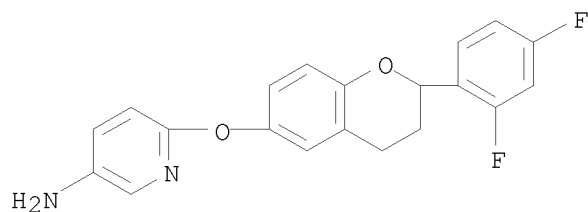
RN 488849-43-0 HCAPLUS

CN Pyridine, 2-[[2-(2,4-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 488849-47-4 HCAPLUS

CN 3-Pyridinamine, 6-[[2-(2,4-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)

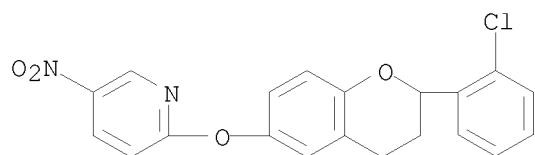


RN 488849-50-9 HCAPLUS

CN Pyridine, 2-[[2-(2-chlorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)

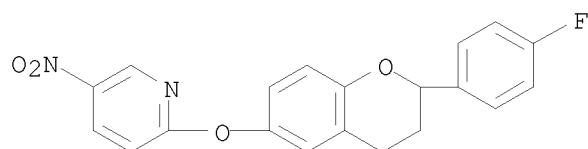
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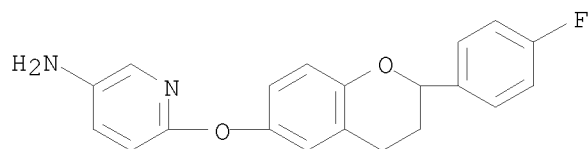
RN 488849-55-4 HCAPLUS

CN Pyridine, 2-[[2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



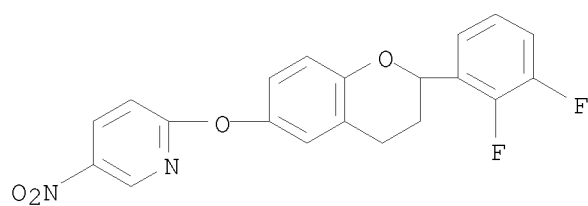
RN 488849-59-8 HCAPLUS

CN 3-Pyridinamine, 6-[[2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



RN 488849-61-2 HCAPLUS

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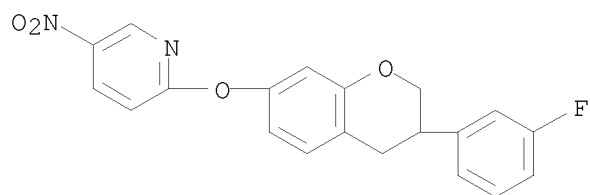


RN 488849-71-4 HCAPLUS

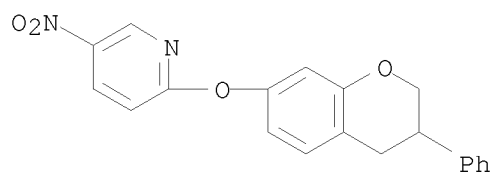
CN Pyridine, 2-[[3-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-7-yl]oxy]-5-nitro- (CA INDEX NAME)

Updated Search

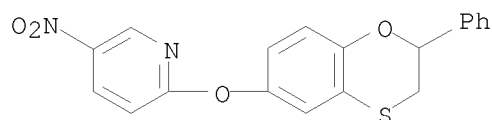
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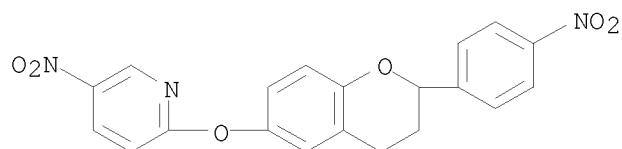
RN 488849-76-9 HCAPLUS
CN Pyridine, 2-[(3,4-dihydro-3-phenyl-2H-1-benzopyran-7-yl)oxy]-5-nitro- (CA INDEX NAME)



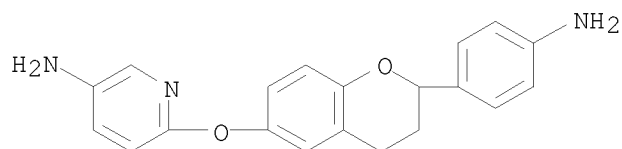
RN 488849-79-2 HCAPLUS
CN Pyridine, 2-[(2,3-dihydro-2-phenyl-1,4-benzoxathiin-6-yl)oxy]-5-nitro- (CA INDEX NAME)



RN 488849-84-9 HCAPLUS
CN Pyridine, 2-[[3,4-dihydro-2-(4-nitrophenyl)-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



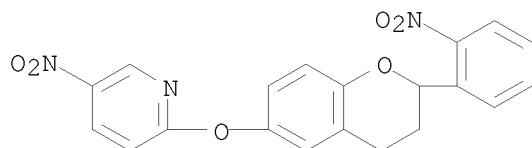
RN 488849-88-3 HCAPLUS
CN 3-Pyridinamine, 6-[[2-(4-aminophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



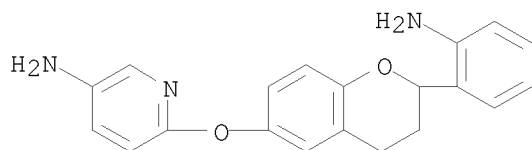
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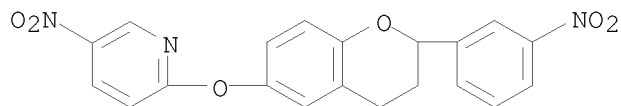
RN 488849-89-4 HCAPLUS
CN Pyridine, 2-[[3,4-dihydro-2-(2-nitrophenyl)-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



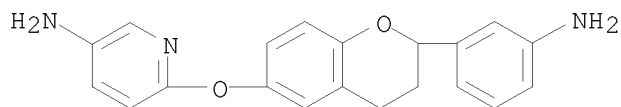
RN 488849-93-0 HCAPLUS
CN 3-Pyridinamine, 6-[[2-(2-aminophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



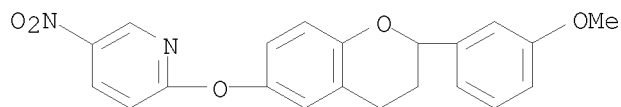
RN 488849-95-2 HCAPLUS
CN Pyridine, 2-[[3,4-dihydro-2-(3-nitrophenyl)-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 488849-98-5 HCAPLUS
CN 3-Pyridinamine, 6-[[2-(3-aminophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



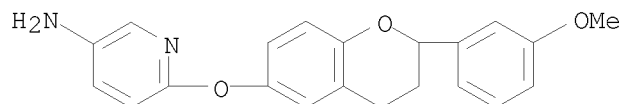
RN 488850-05-1 HCAPLUS
CN Pyridine, 2-[[3,4-dihydro-2-(3-methoxyphenyl)-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



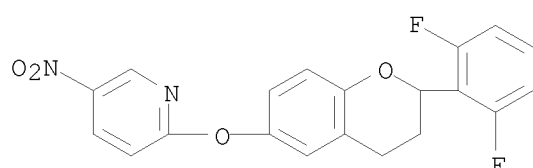
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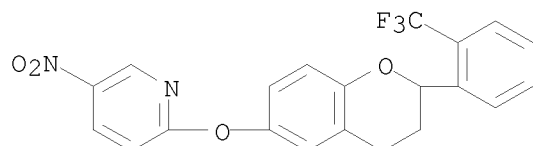
RN 488850-09-5 HCAPLUS
CN 3-Pyridinamine, 6-[[3,4-dihydro-2-(3-methoxyphenyl)-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



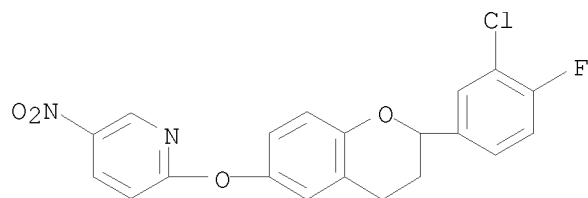
RN 728934-53-0 HCAPLUS
CN Pyridine, 2-[[2-(2,6-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 728934-56-3 HCAPLUS
CN Pyridine, 2-[[3,4-dihydro-2-[2-(trifluoromethyl)phenyl]-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



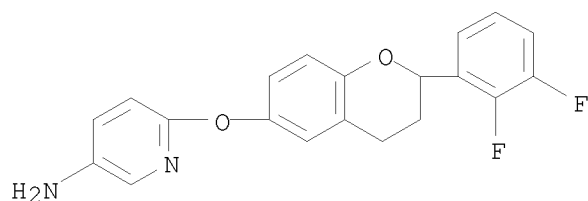
RN 728934-60-9 HCAPLUS
CN Pyridine, 2-[[2-(3-chloro-4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 728934-65-4 HCAPLUS
CN 3-Pyridinamine, 6-[[2-(2,3-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)

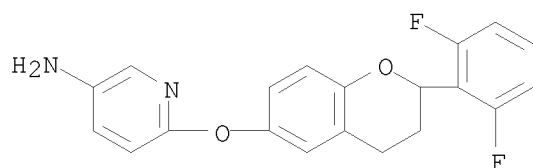
Updated Search

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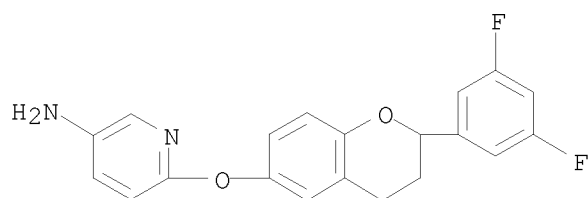
RN 728934-68-7 HCAPLUS

CN 3-Pyridinamine, 6-[[2-(2,6-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



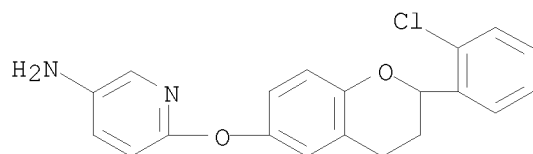
RN 728934-70-1 HCAPLUS

CN 3-Pyridinamine, 6-[[2-(3,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



RN 728934-72-3 HCAPLUS

CN 3-Pyridinamine, 6-[[2-(2-chlorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)

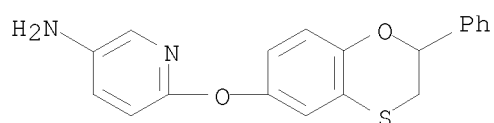


RN 728934-75-6 HCAPLUS

CN 3-Pyridinamine, 6-[(2,3-dihydro-2-phenyl-1,4-benzoxathiin-6-yl)oxy]-, hydrochloride (1:1) (CA INDEX NAME)

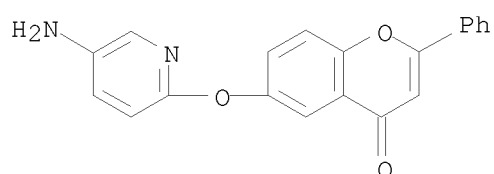
Updated Search

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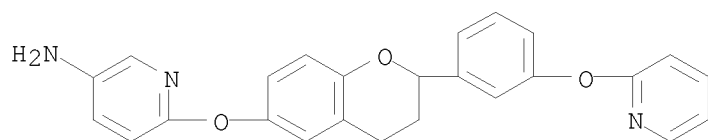


● HCl

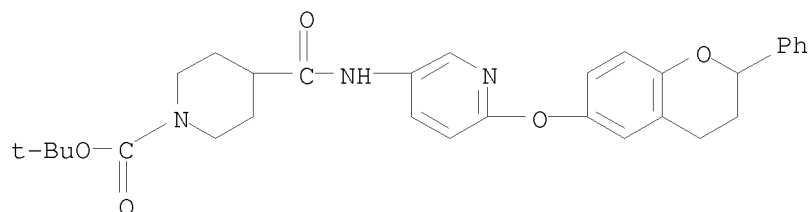
RN 728934-77-8 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[(5-amino-2-pyridinyl)oxy]-2-phenyl- (CA INDEX NAME)



RN 728934-80-3 HCAPLUS
CN 3-Pyridinamine, 6-[[[3,4-dihydro-2-[3-(2-pyridinyloxy)phenyl]-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



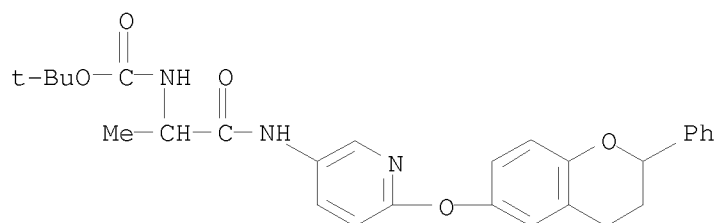
RN 728935-44-2 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-[[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 728935-46-4 HCAPLUS
CN Carbamic acid, [2-[[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]-1-methyl-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Updated Search

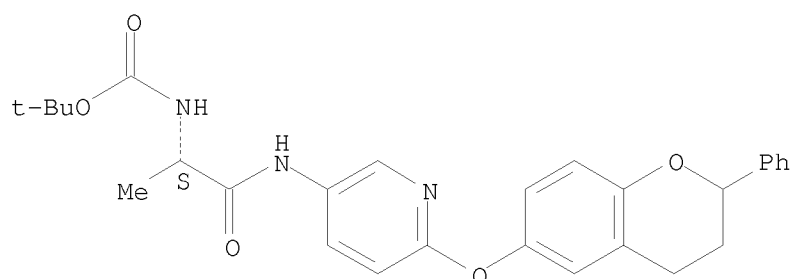
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RN 728935-48-6 HCAPLUS

CN Carbamic acid, [(1S)-2-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]-1-methyl-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

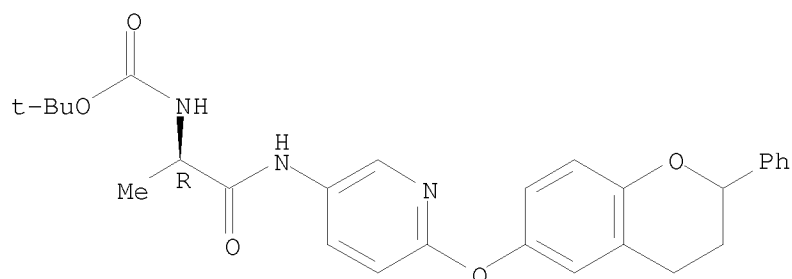
Absolute stereochemistry.



RN 728935-50-0 HCAPLUS

CN Carbamic acid, [(1R)-2-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]-1-methyl-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



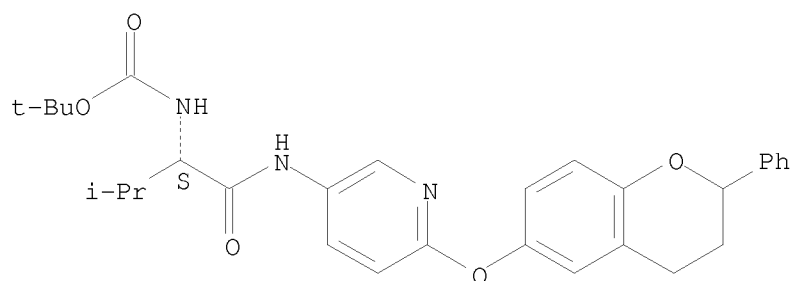
RN 728935-56-6 HCAPLUS

CN Carbamic acid, [(1S)-1-[[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]carbonyl]-2-methylpropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Updated Search

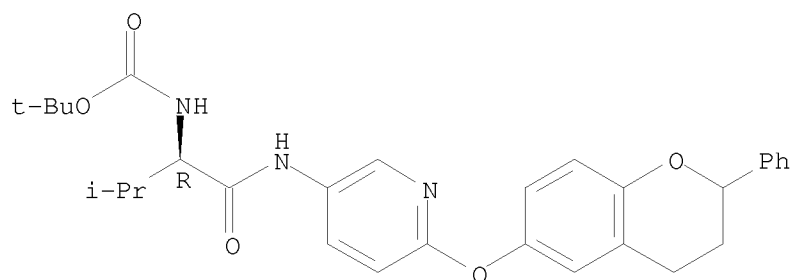
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RN 728935-58-8 HCAPLUS

CN Carbamic acid, [(1R)-1-[[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]carbonyl]-2-methylpropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

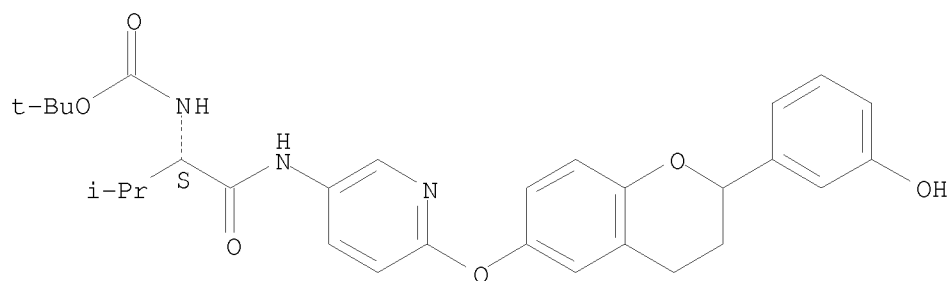
Absolute stereochemistry.



RN 728935-71-5 HCAPLUS

CN Carbamic acid, [(1S)-1-[[[6-[[3,4-dihydro-2-(3-hydroxyphenyl)-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]amino]carbonyl]-2-methylpropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 728935-74-8 HCAPLUS

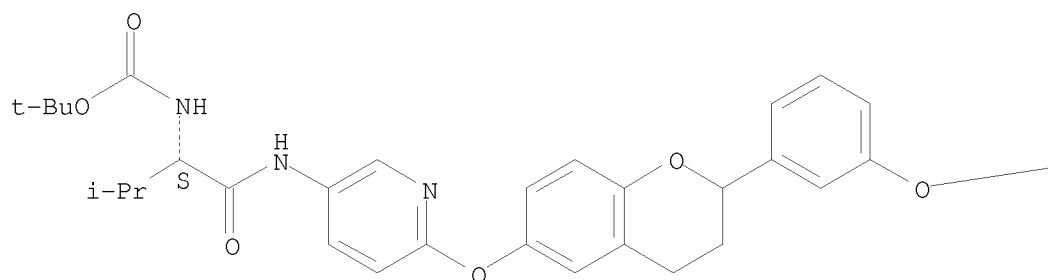
CN Carbamic acid, [(1S)-1-[[[6-[[3,4-dihydro-2-[3-[(5-nitro-2-pyridinyl)oxy]phenyl]-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]amino]carbonyl]-2-methylpropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Updated Search

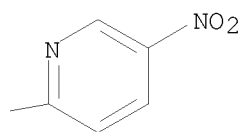
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Absolute stereochemistry.

PAGE 1-A



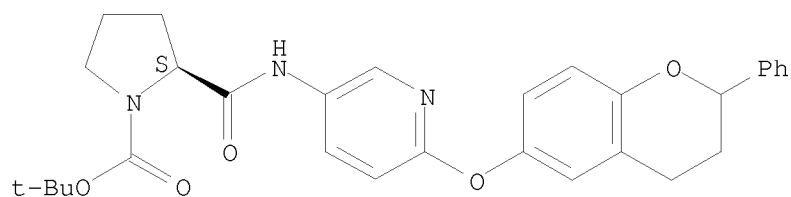
PAGE 1-B



RN 728935-77-1 HCAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (CA INDEX NAME)

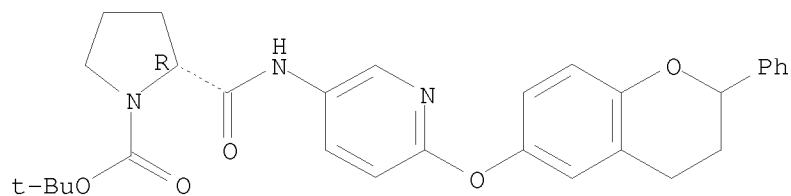
Absolute stereochemistry.



RN 728935-80-6 HCAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2R)- (CA INDEX NAME)

Absolute stereochemistry.



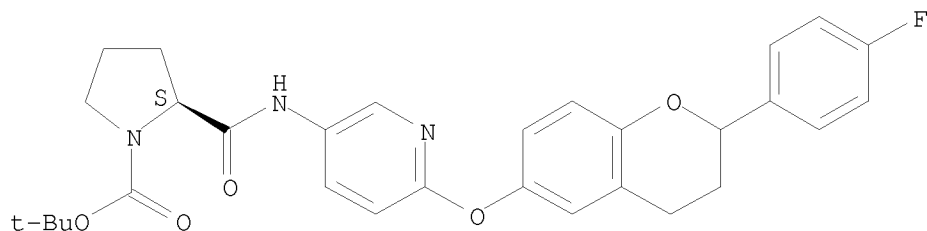
Updated Search

10541677

RN 728935-83-9 HCAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[[2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (CA INDEX NAME)

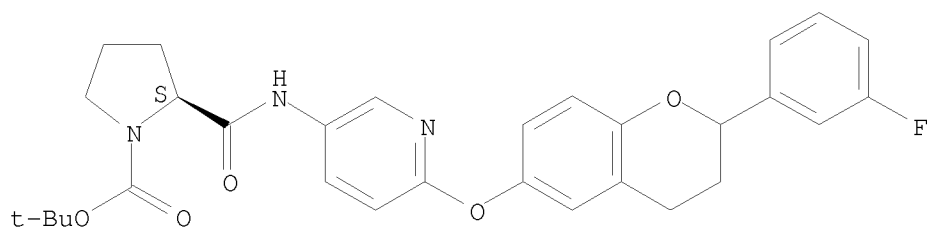
Absolute stereochemistry.



RN 728935-85-1 HCAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[[2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (CA INDEX NAME)

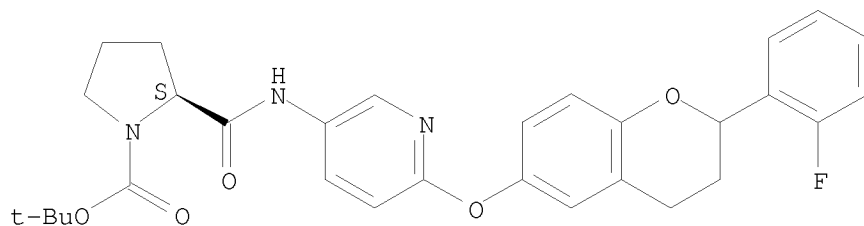
Absolute stereochemistry.



RN 728935-87-3 HCAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[[2-(2-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



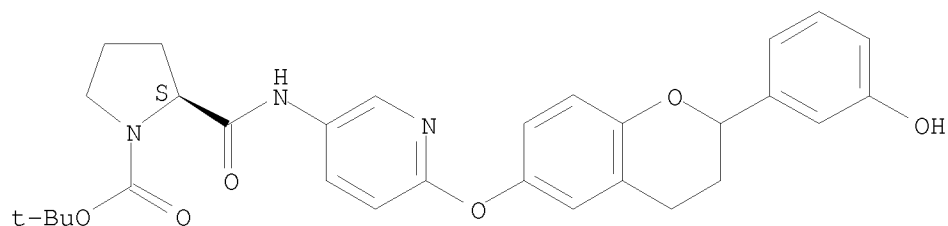
RN 728936-02-5 HCAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[[3,4-dihydro-2-(3-hydroxyphenyl)-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (CA INDEX NAME)

Updated Search

10541677

Absolute stereochemistry.

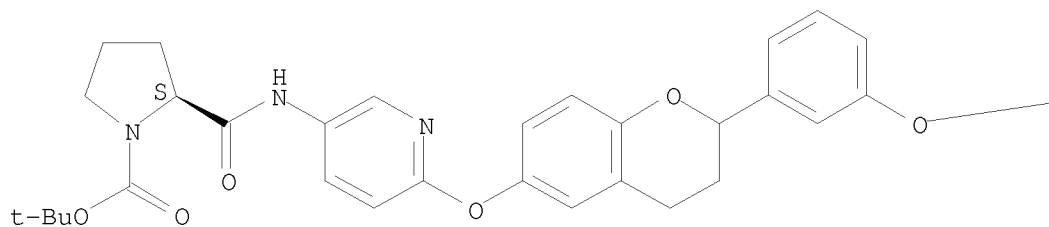


RN 728936-04-7 HCAPLUS

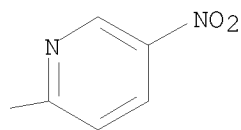
CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[[3,4-dihydro-2-[3-[(5-nitro-2-pyridinyl)oxy]phenyl]-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

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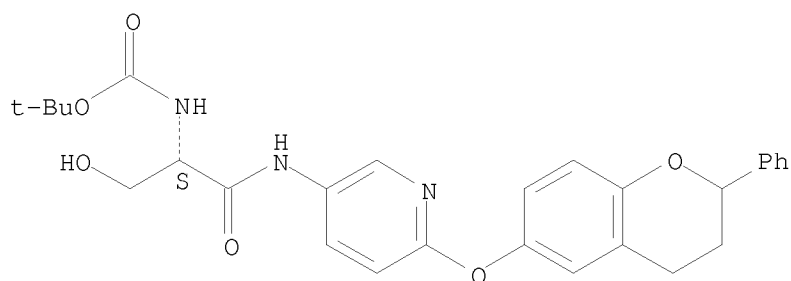
RN 728936-11-6 HCAPLUS

CN Carbamic acid, [(1S)-2-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]-1-(hydroxymethyl)-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

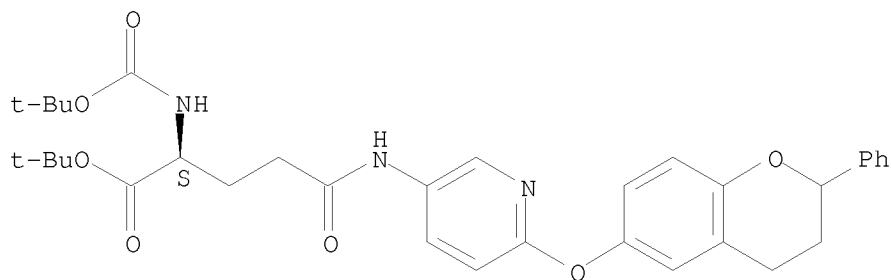
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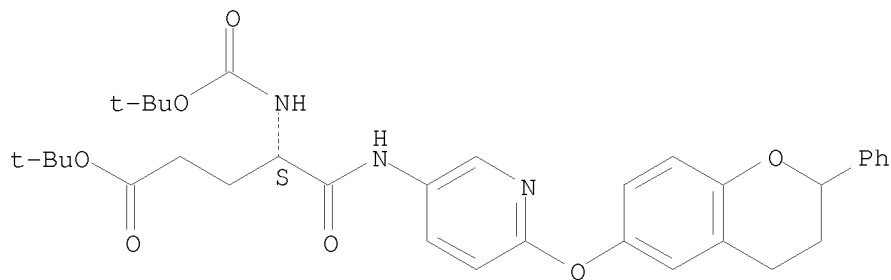
RN 728936-17-2 HCAPLUS
CN L-Glutamine, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-N2-[(1,1-dimethylethoxy)carbonyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 728936-25-2 HCAPLUS
CN Pentanoic acid, 5-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]-4-[[[(1,1-dimethylethoxy)carbonyl]amino]-5-oxo-, 1,1-dimethylethyl ester, (4S)- (CA INDEX NAME)

Absolute stereochemistry.

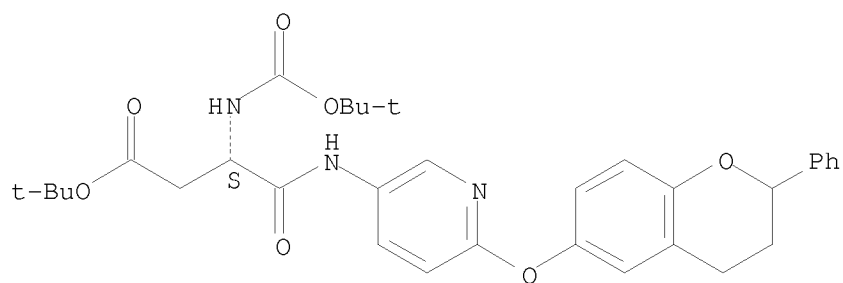


RN 728936-34-3 HCAPLUS
CN Butanoic acid, 4-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]-3-[[[(1,1-dimethylethoxy)carbonyl]amino]-4-oxo-, 1,1-dimethylethyl ester, (3S)- (CA INDEX NAME)

Absolute stereochemistry.

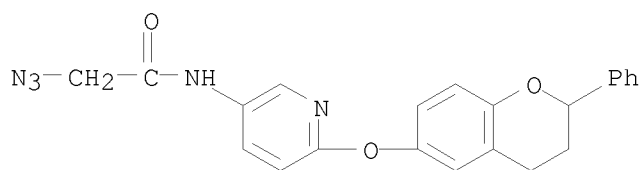
Updated Search

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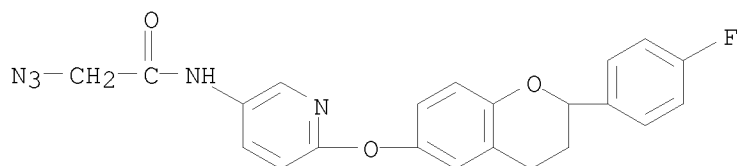
RN 728936-56-9 HCAPLUS

CN Acetamide, 2-azido-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



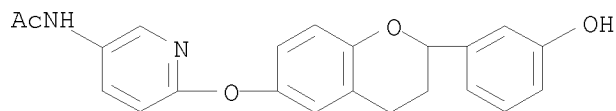
RN 728936-58-1 HCAPLUS

CN Acetamide, 2-azido-N-[6-[[2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 728937-23-3 HCAPLUS

CN Acetamide, N-[6-[[3,4-dihydro-2-(3-hydroxyphenyl)-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)



L20 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:58077 HCAPLUS

DOCUMENT NUMBER: 138:122550

TITLE: Preparation of phenyl chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of

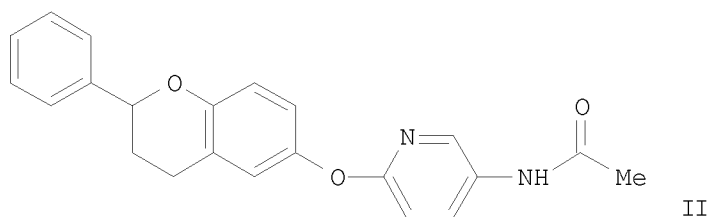
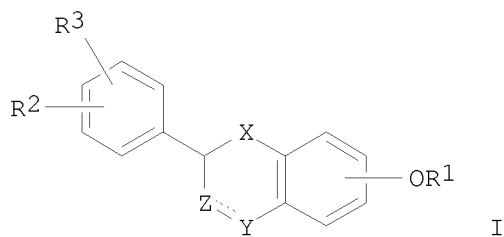
Updated Search

10541677

Na+/Ca2+ exchange mechanism for treatment of
arrhythmias

INVENTOR(S): Koskelainen, Tuula; Otsomaa, Leena;
Karjalainen, Arto; Kotovuori, Pekka; Tenhunen, Jukka;
Rasku, Sirpa; Nore, Pentti; Tiainen, Eija;
Toermaekangas, Olli
PATENT ASSIGNEE(S): Orion Corporation, Finland
SOURCE: PCT Int. Appl., 98 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003006452	A1	20030123	WO 2002-FI621	20020710
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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AU 2002321339	A1	20030129	AU 2002-321339	20020710
AU 2002321339	B2	20070621		
EP 1412343	A1	20040428	EP 2002-755036	20020710
EP 1412343	B1	20060830		
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BR 2002011070	A	20040615	BR 2002-11070	20020710
CN 1525966	A	20040901	CN 2002-813863	20020710
HU 2004000391	A2	20041228	HU 2004-391	20020710
HU 2004000391	A3	20080328		
JP 2005504738	T	20050217	JP 2003-512224	20020710
JP 4113839	B2	20080709		
NZ 530490	A	20051223	NZ 2002-530490	20020710
AT 338038	T	20060915	AT 2002-755036	20020710
ES 2269746	T3	20070401	ES 2002-755036	20020710
NO 2003005821	A	20040224	NO 2003-5821	20031223
IN 2004KN00013	A	20061103	IN 2004-KN13	20040105
ZA 2004000145	A	20050408	ZA 2004-145	20040108
MX 2004PA00267	A	20040723	MX 2004-PA267	20040109
US 20040235905	A1	20041125	US 2004-482396	20040608
HK 1068611	A1	20070112	HK 2005-100708	20050127
PRIORITY APPLN. INFO.:			FI 2001-1507	A 20010710
			WO 2002-FI621	W 20020710
OTHER SOURCE(S):	MARPAT 138:122550			
GI				



AB Title therapeutically active compds. I [wherein X = O, CH₂, or CO; Z = CHR₉ or bond; Y = CH₂, CO, CHOR₁₀, CHNR₁₁R₁₂, O, S, SO, or SO₂, provided that when Z = a bond, Y ≠ CO; the dashed line = optional double bond when Z = CR₉ and Y = CH, COR₁₀, or CNR₁₁R₁₂; R₁ = (CH₂)_nNR₄R₇ or dihydroimidazolylmethyl or (un)substituted 2-aminophenyl or 2-pyridyl; n = 1-4; R₂ and R₃ = independently H, alkyl, alkoxy, NO₂, halo, CF₃, OH, NHR₈, or CO₂H; R₄ and R₇ = independently H or (hydroxy)alkyl; R₈ = H or acyl; R₉ = H or alkyl; R₁₀ = H, alkylsulfonyl, or acyl; R₁₁ and R₁₂ = independently H, alkyl, or acyl; and pharmaceutically acceptable salts and esters thereof] were prepared as inhibitors of Na⁺/Ca²⁺ exchange mechanism in cells. For example, 6-hydroxyflavanone was reduced to 2-phenylchroman-6-ol and coupled with 2-chloro-5-nitropyridine. Reduction to the amine using glacial acetic acid and Zn powder followed by acetylation gave 5-(acetamino)-2-(2-phenylchroman-6-yloxy)pyridine (II). The latter delayed the appearance (38 ± 7.5 min vs. vehicle) and decreased the amplitude (74 ± 16 mg vs. vehicle) of ouabain-induced arrhythmias in guinea-pig papillary muscles at a concentration of 30 μM. Thus, I are useful for the treatment of arrhythmias.

IT 488847-28-5P, 5-Nitro-2-[(2-phenylchroman-6-yl)oxy]pyridine
 488847-51-4P, 6-[(5-Nitropyridin-2-yl)oxy]-2-phenylchroman-4-one
 488847-55-8P, 6-[(5-Nitropyridin-2-yl)oxy]-2-phenylchroman-4-ol
 488847-59-2P, 2-[[2-(3-Fluorophenyl)chroman-6-yl]oxy]-5-nitropyridine 488847-98-9P, 2-[[2-(2,5-Difluorophenyl)chroman-6-yl]oxy]-5-nitropyridine 488848-30-2P, 2-[[2-(2-Fluorophenyl)chroman-6-yl]oxy]-5-nitropyridine 488848-58-4P, 5-Amino-2-[(2-phenylchroman-6-yl)oxy]pyridine 488849-15-6P, [6-[[2-(2,5-Difluorophenyl)chroman-6-yl]oxy]pyridin-3-yl]amine 488849-17-8P, [6-[[2-(2-Fluorophenyl)chroman-6-yl]oxy]pyridin-3-yl]amine 488849-20-3P, [6-[[2-(3-Fluorophenyl)chroman-6-yl]oxy]pyridin-3-yl]amine 488849-33-8P, 5-Nitro-2-[[2-(4-trifluoromethylphenyl)chroman-6-yl]oxy]pyridine 488849-37-2P, [6-[[2-(4-Trifluoromethylphenyl)chroman-6-yl]oxy]pyridin-3-yl]amine 488849-43-0P, 2-[[2-(2,4-Difluorophenyl)chroman-6-yl]oxy]-5-nitropyridine 488849-47-4P, [6-[[2-(2,4-Difluorophenyl)chroman-6-yl]oxy]pyridin-3-yl]amine 488849-55-4P, 5-Nitro-2-[[2-(4-Fluorophenyl)chroman-6-yl]oxy]pyridine 488849-59-8P,

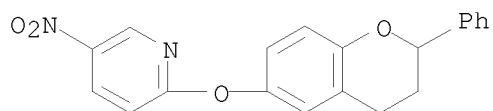
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[6-[[2-(4-Fluorophenyl)chroman-6-yl]oxy]pyridin-3-yl]amine
488849-79-2P, 5-Nitro-2-[(2-phenyl-2,3-dihydrobenzo[1,4]oxathiin-6-yl)oxy]pyridine 488849-84-9P, 5-Nitro-2-[[2-(4-nitrophenyl)chroman-6-yl]oxy]pyridine 488849-89-4P,
5-Nitro-2-[[2-(2-nitrophenyl)chroman-6-yl]oxy]pyridine
488849-93-0P, [6-[[2-(2-Aminophenyl)chroman-6-yl]oxy]pyridin-3-yl]amine 488849-95-2P, 5-Nitro-2-[[2-(3-nitrophenyl)chroman-6-yl]oxy]pyridine 488849-99-6P, 2-(4-Methoxyphenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol 488850-00-6P
488850-02-8P, 2-(2-Methoxyphenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol 488850-05-1P, 2-[[2-(3-Methoxyphenyl)chroman-6-yl]oxy]-5-nitropyridine 488850-09-5P, [6-[[2-(3-Methoxyphenyl)chroman-6-yl]oxy]pyridin-3-yl]amine 488850-11-9P,
2-(3-Methoxyphenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(antiarrhythmic; preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na⁺/Ca²⁺ exchange mechanism for treatment of arrhythmias)

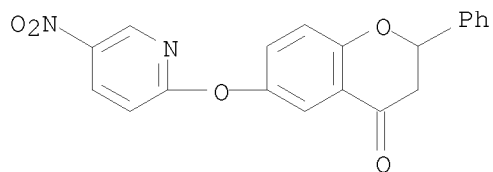
RN 488847-28-5 HCAPLUS

CN Pyridine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)



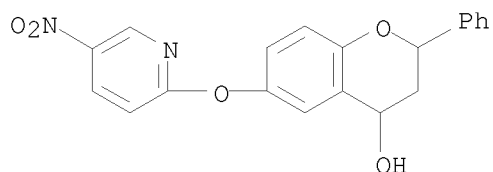
RN 488847-51-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl- (CA INDEX NAME)



RN 488847-55-8 HCAPLUS

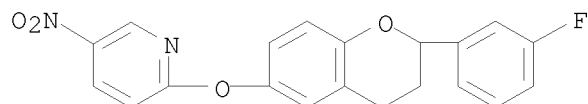
CN 2H-1-Benzopyran-4-ol, 3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl- (CA INDEX NAME)



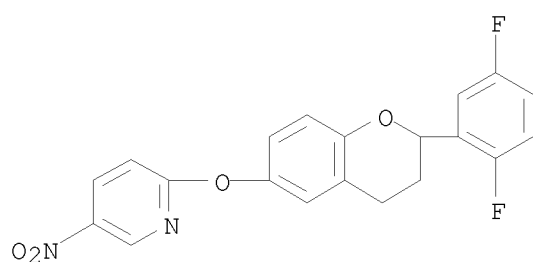
Updated Search

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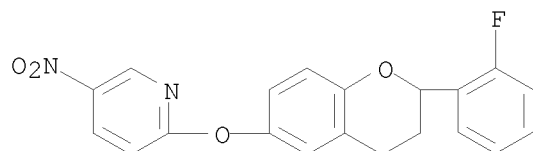
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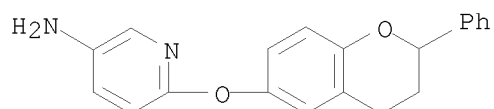
RN 488847-98-9 HCAPLUS
CN Pyridine, 2-[[2-(2,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 488848-30-2 HCAPLUS
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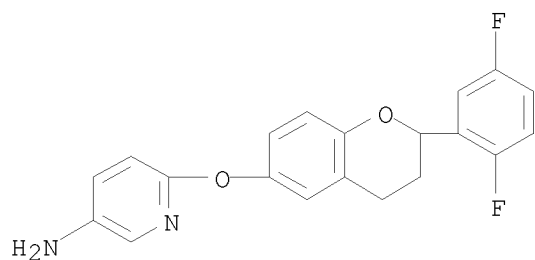
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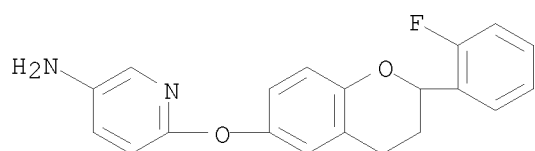
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Updated Search

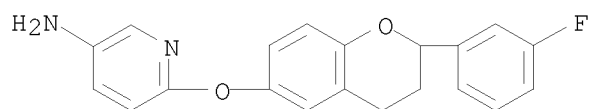
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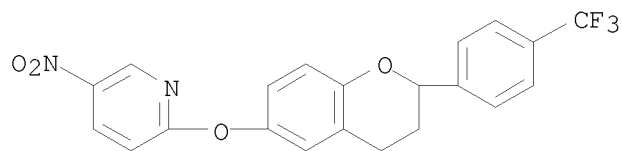
RN 488849-17-8 HCAPLUS
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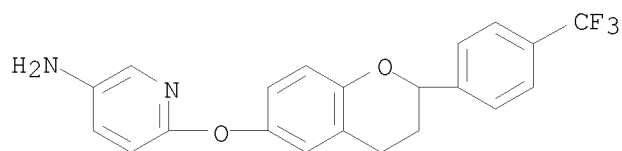
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CN 3-Pyridinamine, 6-[[2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



RN 488849-33-8 HCAPLUS
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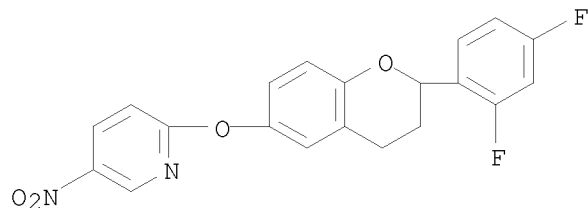
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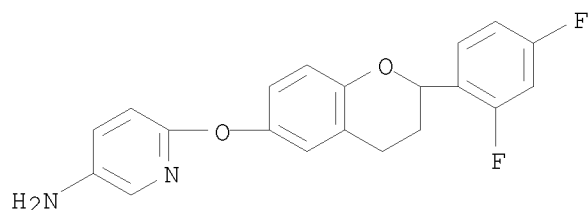
Updated Search

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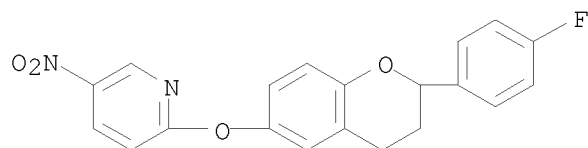
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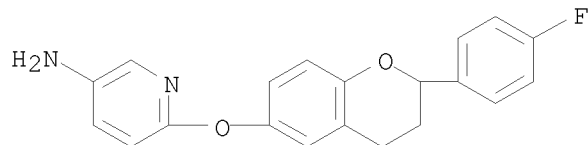
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CN 3-Pyridinamine, 6-[[2-(2,4-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



RN 488849-55-4 HCAPLUS
CN Pyridine, 2-[[2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 488849-59-8 HCAPLUS
CN 3-Pyridinamine, 6-[[2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)

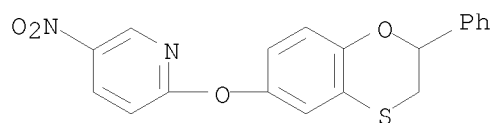


RN 488849-79-2 HCAPLUS
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Updated Search

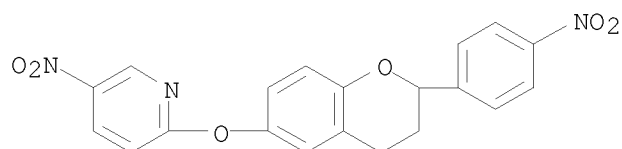
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(CA INDEX NAME)



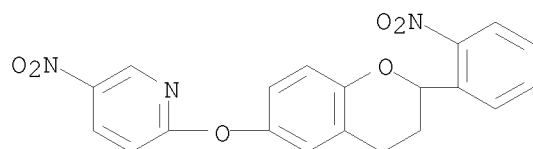
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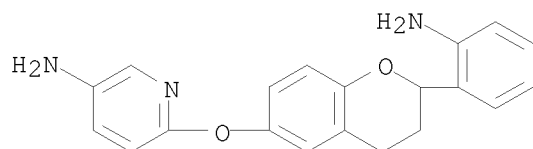
RN 488849-89-4 HCAPLUS

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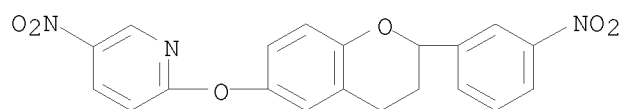
RN 488849-93-0 HCAPLUS

CN 3-Pyridinamine, 6-[[2-(2-aminophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



RN 488849-95-2 HCAPLUS

CN Pyridine, 2-[[3,4-dihydro-2-(3-nitrophenyl)-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)

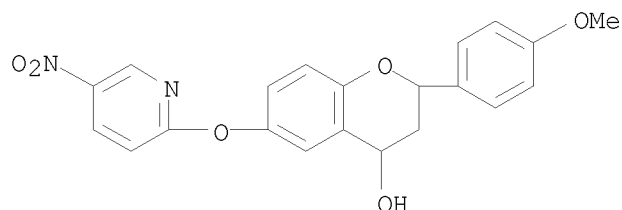


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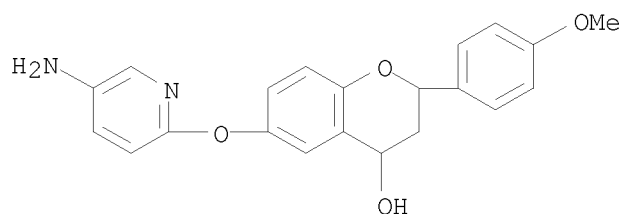
RN 488849-99-6 HCAPLUS

CN 2H-1-Benzopyran-4-ol, 3,4-dihydro-2-(4-methoxyphenyl)-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)



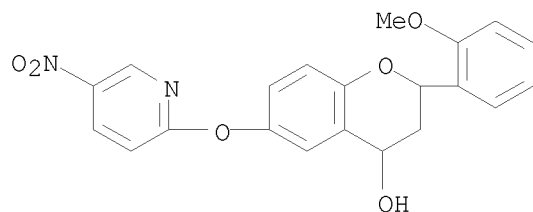
RN 488850-00-6 HCAPLUS

CN 2H-1-Benzopyran-4-ol, 6-[(5-amino-2-pyridinyl)oxy]-3,4-dihydro-2-(4-methoxyphenyl)- (CA INDEX NAME)



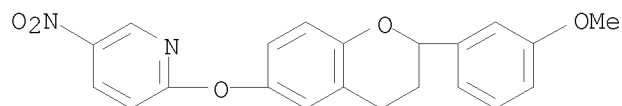
RN 488850-02-8 HCAPLUS

CN 2H-1-Benzopyran-4-ol, 3,4-dihydro-2-(2-methoxyphenyl)-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)



RN 488850-05-1 HCAPLUS

CN Pyridine, 2-[[3,4-dihydro-2-(3-methoxyphenyl)-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)

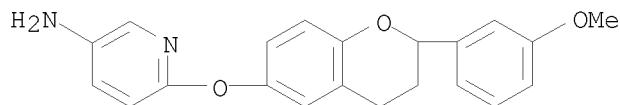


RN 488850-09-5 HCAPLUS

CN 3-Pyridinamine, 6-[[3,4-dihydro-2-(3-methoxyphenyl)-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)

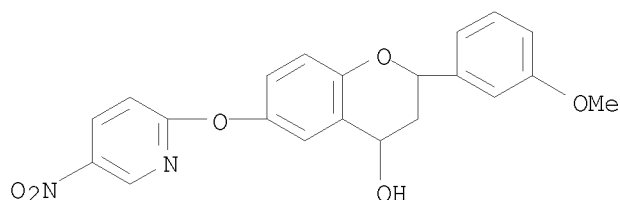
Updated Search

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RN 488850-11-9 HCAPLUS

CN 2H-1-Benzopyran-4-ol, 3,4-dihydro-2-(3-methoxyphenyl)-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)



IT 488847-53-6P, 7-[(5-Nitropyridin-2-yl)oxy]-2-phenylchroman-4-one
488847-69-4P, 5-Nitro-2-[(2-phenylchroman-7-yl)oxy]pyridine
488847-76-3P, 2-[[2-(2,4-Dichlorophenyl)chroman-6-yl]oxy]-5-nitropyridine
488847-84-3P, 2-[[2-(3-Chlorophenyl)chroman-6-yl]oxy]-5-nitropyridine
488847-92-3P, 2-[[2-(3,5-Difluorophenyl)chroman-6-yl]oxy]-5-nitropyridine
488848-04-0P, 2-[[2-(3-Bromophenyl)chroman-6-yl]oxy]-5-nitropyridine
488848-12-0P, 2-[[2-(4-Ethylphenyl)chroman-6-yl]oxy]-5-nitropyridine
488848-20-0P, 2-[(3-Methyl-2-phenylchroman-6-yl)oxy]-5-nitropyridine
488848-28-8P, 3-Methyl-6-[(5-nitropyridin-2-yl)oxy]-2-phenylchroman-4-one
488848-38-0P, 2-[(2,3-Dihydro-2-phenylbenzo[1,4]dioxin-6-yl)oxy]-5-nitropyridine
488848-51-7P, 2-[(2,3-Dihydro-2-phenylbenzo[1,4]dioxin-6-yl)oxy]-3-nitropyridine
488848-53-9P, 2-[(2,3-Dihydro-2-phenylbenzo[1,4]dioxin-6-yl)oxy]-5-trifluoromethylpyridine
488848-54-0P, 5-Nitro-2-[(6-phenyl-5,6,7,8-tetrahydronaphthalen-2-yl)oxy]pyridine
488848-55-1P, 6-[(5-Nitropyridin-2-yl)oxy]-2-phenyl-3,4-dihydro-2H-naphthalen-1-one
488848-59-5P, 5-Acetylamino-2-[(2-phenylchroman-6-yl)oxy]pyridine
488848-60-8P, 5-(N,N-Diacetylamino)-2-[(2-phenylchroman-6-yl)oxy]pyridine
488848-78-8P, 3-Nitro-2-[(2-phenylchroman-6-yl)oxy]pyridine
488848-84-6P, 5-Succinimido-2-[(2-phenylchroman-6-yl)oxy]-pyridine
488848-86-8P 488849-10-1P, N-[6-[(2-Phenylchroman-6-yl)oxy]pyridin-3-yl]methanesulfonamide
488849-11-2P, 1-Methyl-3-[6-[(2-phenylchroman-6-yl)oxy]pyridin-3-yl]thiourea
488849-12-3P, 3-[6-[(5-Nitropyridin-2-yl)oxy]chroman-2-yl]phenol
488849-16-7P, N-[6-[[2-(2,5-Difluorophenyl)chroman-6-yl]oxy]pyridin-3-yl]acetamide
488849-18-9P, N-[6-[[2-(2-Fluorophenyl)chroman-6-yl]oxy]pyridin-3-yl]acetamide
488849-19-0P, N-[6-[[2-(2-Fluorophenyl)chroman-6-yl]oxy]pyridin-3-yl]methanesulfonamide
488849-21-4P, N-[6-[[2-(3-Fluorophenyl)chroman-6-yl]oxy]pyridin-3-yl]acetamide
488849-22-5P, 6-[(5-Aminopyridin-2-yl)oxy]-2-phenylchroman-4-one
488849-23-6P, Acetic acid 6-[(5-nitropyridin-2-yl)oxy]-2-phenylchroman-4-yl ester

Updated Search

488849-27-0P, 2-(3-Bromophenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol 488849-28-1P, 2-(2-Fluorophenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol 488849-29-2P, 2-(2,5-Difluorophenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol 488849-30-5P, 2-(3-Fluorophenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol 488849-38-3P, N-[6-[[2-(4-Trifluoromethylphenyl)chroman-6-yl]oxy]pyridin-3-yl]acetamide 488849-39-4P, N-[6-[[2-(3-Fluorophenyl)chroman-6-yl]oxy]pyridin-3-yl]methanesulfonamide 488849-40-7P, 2-(4-Chlorophenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol 488849-48-5P, N-[6-[[2-(2,4-Difluorophenyl)chroman-6-yl]oxy]pyridin-3-yl]methanesulfonamide 488849-49-6P, 2-(2,4-Difluorophenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol 488849-50-9P, 2-[[2-(2-Chlorophenyl)chroman-6-yl]oxy]-5-nitropyridine 488849-54-3P, 2-(2-Chlorophenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol 488849-60-1P, N-[6-[[2-(4-Fluorophenyl)chroman-6-yl]oxy]pyridin-3-yl]methanesulfonamide 488849-61-2P, 2-[[2-(2,3-Difluorophenyl)chroman-6-yl]oxy]-5-nitropyridine 488849-65-6P, 2-(2,6-Difluorophenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol 488849-68-9P, 6-[(5-Nitropyridin-2-yl)oxy]-2-(2-trifluoromethylphenyl)chroman-4-ol 488849-71-4P, 2-[[3-(3-Fluorophenyl)chroman-7-yl]oxy]-5-nitropyridine 488849-76-9P, 5-Nitro-2-[(3-phenylchroman-7-yl)oxy]pyridine 488849-82-7P, 5-Nitro-2-[(4-oxo-2-phenyl-3,4-dihydrobenzo[1,4]oxathiin-6-yl)oxy]pyridine 488849-83-8P, 2-[(4,4-Dioxo-2-phenyl-3,4-dihydrobenzo[1,4]oxathiin-6-yl)oxy]-5-nitropyridine 488849-88-3P, [6-[[2-(4-Aminophenyl)chroman-6-yl]oxy]pyridin-3-yl]amine 488849-94-1P, N-[6-[[2-(2-Acetylaminophenyl)chroman-6-yl]oxy]pyridin-3-yl]acetamide 488849-98-5P, [6-[[2-(3-Aminophenyl)chroman-6-yl]oxy]pyridin-3-yl]amine 488850-01-7P, N-[6-[[4-Hydroxy-2-(4-methoxyphenyl)chroman-6-yl]oxy]pyridin-3-yl]acetamide 488850-04-0P, 6-[(5-Aminopyridin-2-yl)oxy]-2-(2-methoxyphenyl)chroman-4-ol 488850-10-8P, N-[6-[[2-(3-Methoxyphenyl)chroman-6-yl]oxy]pyridin-3-yl]acetamide 488850-12-0P, 6-[(5-Aminopyridin-2-yl)oxy]-2-(3-methoxyphenyl)chroman-4-ol 488850-13-1P, [6-[(2-Phenyl-2,3-dihydrobenzo[1,4]oxathiin-6-yl)oxy]pyridin-3-yl]amine dihydrochloride 488850-14-2P, N-[6-[(2-Phenyl-2,3-dihydrobenzo[1,4]oxathiin-6-yl)oxy]pyridin-3-yl]acetamide

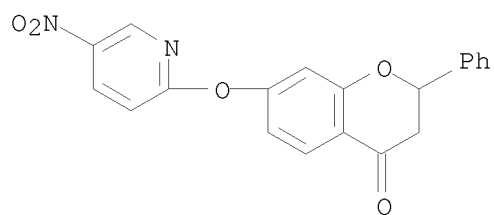
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(antiarrhythmic; preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na⁺/Ca²⁺ exchange mechanism for treatment of arrhythmias)

RN 488847-53-6 HCAPLUS

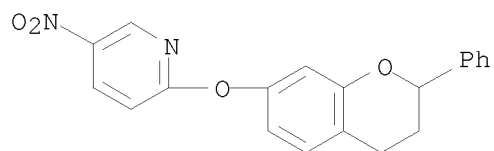
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-7-[(5-nitro-2-pyridinyl)oxy]-2-phenyl- (CA INDEX NAME)

10541677



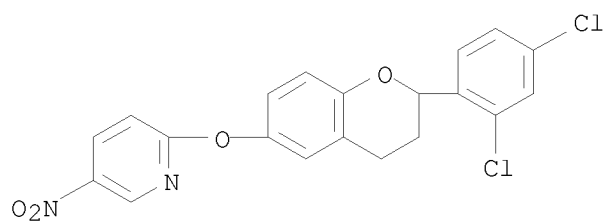
RN 488847-69-4 HCAPLUS

CN Pyridine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-7-yl)oxy]-5-nitro- (CA INDEX NAME)



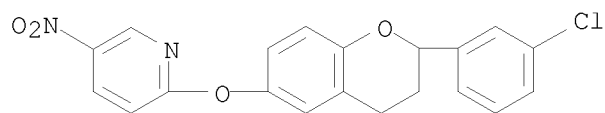
RN 488847-76-3 HCAPLUS

CN Pyridine, 2-[[2-(2,4-dichlorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 488847-84-3 HCAPLUS

CN Pyridine, 2-[[2-(3-chlorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)

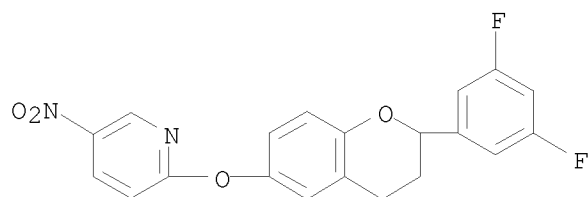


RN 488847-92-3 HCAPLUS

CN Pyridine, 2-[[2-(3,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)

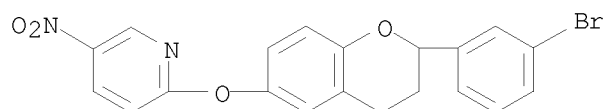
Updated Search

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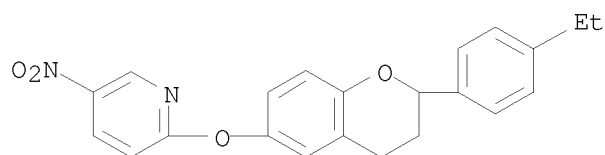
RN 488848-04-0 HCAPLUS

CN Pyridine, 2-[[2-(3-bromophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



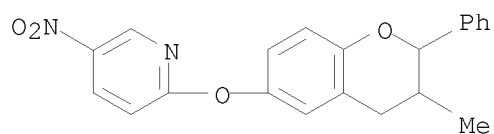
RN 488848-12-0 HCAPLUS

CN Pyridine, 2-[[2-(4-ethylphenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



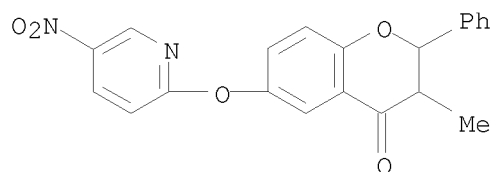
RN 488848-20-0 HCAPLUS

CN Pyridine, 2-[(3,4-dihydro-3-methyl-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)



RN 488848-28-8 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-3-methyl-6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl- (CA INDEX NAME)

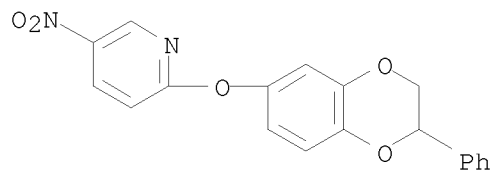


Updated Search

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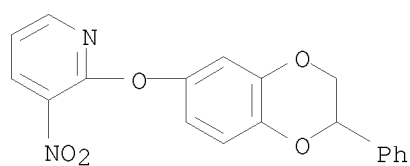
RN 488848-38-0 HCAPLUS

CN Pyridine, 2-[(2,3-dihydro-2-phenyl-1,4-benzodioxin-6-yl)oxy]-5-nitro- (CA INDEX NAME)



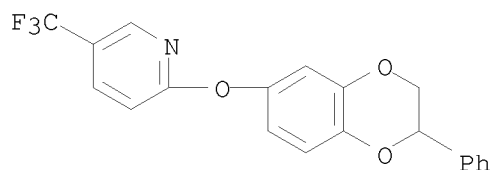
RN 488848-51-7 HCAPLUS

CN Pyridine, 2-[(2,3-dihydro-2-phenyl-1,4-benzodioxin-6-yl)oxy]-3-nitro- (CA INDEX NAME)



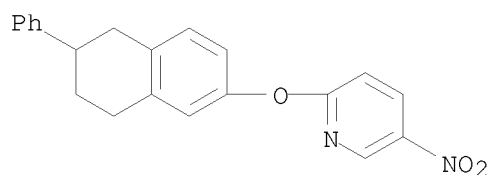
RN 488848-53-9 HCAPLUS

CN Pyridine, 2-[(2,3-dihydro-2-phenyl-1,4-benzodioxin-6-yl)oxy]-5-(trifluoromethyl)- (CA INDEX NAME)



RN 488848-54-0 HCAPLUS

CN Pyridine, 5-nitro-2-[(5,6,7,8-tetrahydro-6-phenyl-2-naphthalenyl)oxy]- (CA INDEX NAME)

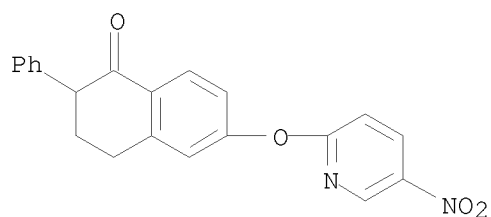


RN 488848-55-1 HCAPLUS

CN 1(2H)-Naphthalenone, 3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl- (CA INDEX NAME)

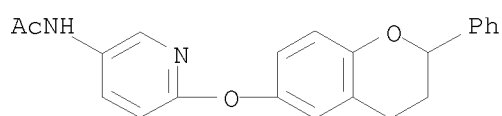
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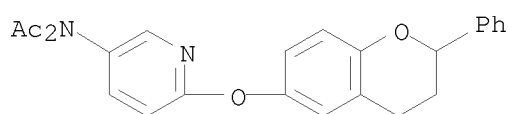
RN 488848-59-5 HCAPLUS

CN Acetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



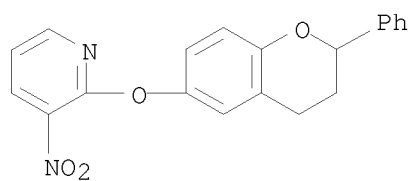
RN 488848-60-8 HCAPLUS

CN Acetamide, N-acetyl-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 488848-78-8 HCAPLUS

CN Pyridine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-nitro- (CA INDEX NAME)

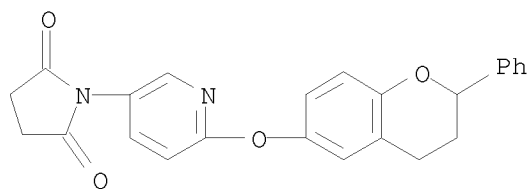


RN 488848-84-6 HCAPLUS

CN 2,5-Pyrrolidinedione, 1-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)

Updated Search

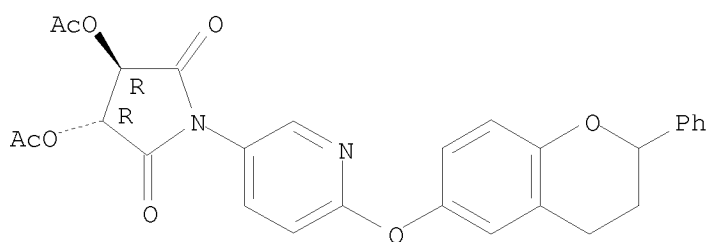
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RN 488848-86-8 HCAPLUS

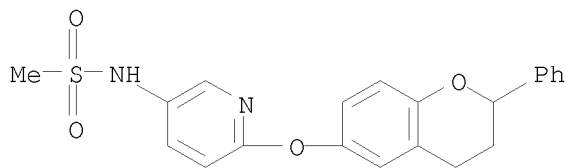
CN 2,5-Pyrrolidinedione, 3,4-bis(acetyloxy)-1-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, (3R,4R)- (CA INDEX NAME)

Absolute stereochemistry.



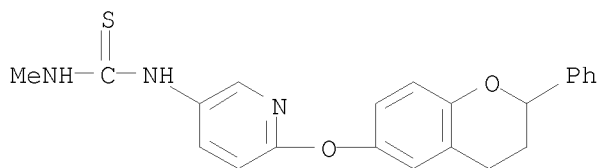
RN 488849-10-1 HCAPLUS

CN Methanesulfonamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 488849-11-2 HCAPLUS

CN Thiourea, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-N'-methyl- (CA INDEX NAME)

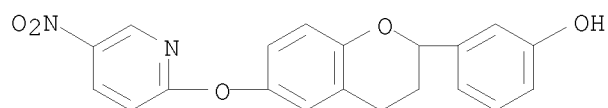


RN 488849-12-3 HCAPLUS

CN Phenol, 3-[3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2H-1-benzopyran-2-yl]- (CA INDEX NAME)

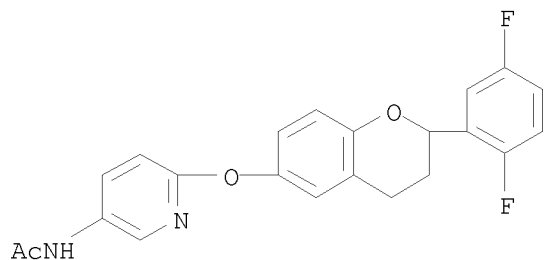
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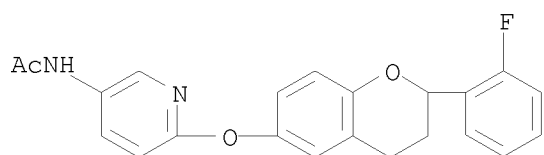
RN 488849-16-7 HCAPLUS

CN Acetamide, N-[6-[[2-(2,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)



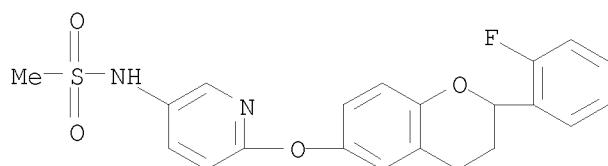
RN 488849-18-9 HCAPLUS

CN Acetamide, N-[6-[[2-(2-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 488849-19-0 HCAPLUS

CN Methanesulfonamide, N-[6-[[2-(2-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)

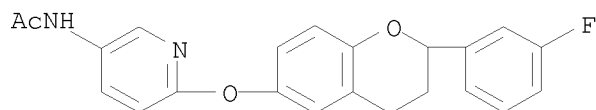


RN 488849-21-4 HCAPLUS

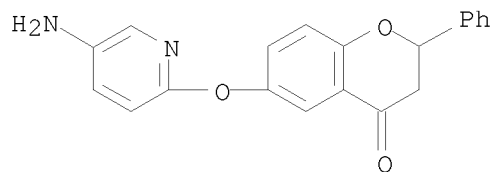
CN Acetamide, N-[6-[[2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)

Updated Search

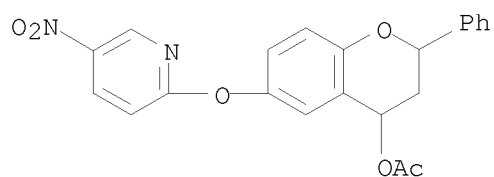
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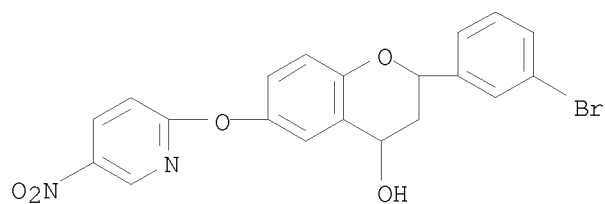
RN 488849-22-5 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[(5-amino-2-pyridinyl)oxy]-2,3-dihydro-2-phenyl-
(CA INDEX NAME)



RN 488849-23-6 HCAPLUS
CN 2H-1-Benzopyran-4-ol, 3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl-,
4-acetate (CA INDEX NAME)



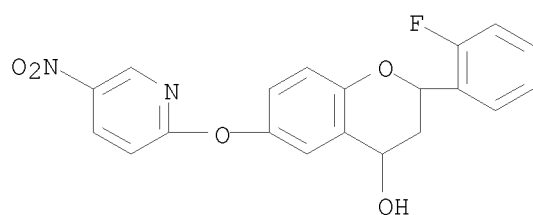
RN 488849-27-0 HCAPLUS
CN 2H-1-Benzopyran-4-ol, 2-(3-bromophenyl)-3,4-dihydro-6-[(5-nitro-2-
pyridinyl)oxy]- (CA INDEX NAME)



RN 488849-28-1 HCAPLUS
CN 2H-1-Benzopyran-4-ol, 2-(2-fluorophenyl)-3,4-dihydro-6-[(5-nitro-2-
pyridinyl)oxy]- (CA INDEX NAME)

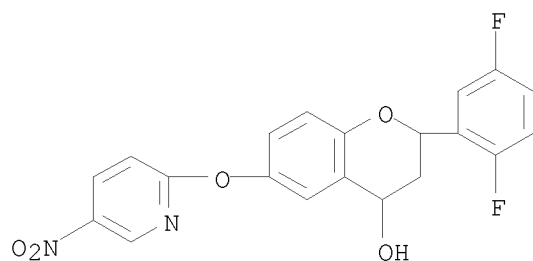
Updated Search

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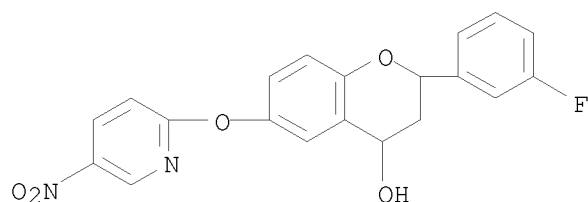
RN 488849-29-2 HCAPLUS

CN 2H-1-Benzopyran-4-ol, 2-(2,5-difluorophenyl)-3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)



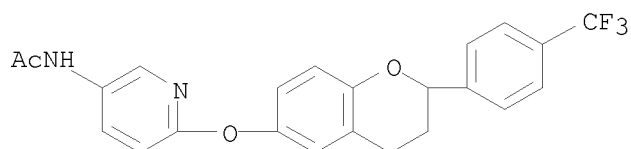
RN 488849-30-5 HCAPLUS

CN 2H-1-Benzopyran-4-ol, 2-(3-fluorophenyl)-3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)



RN 488849-38-3 HCAPLUS

CN Acetamide, N-[6-[[3,4-dihydro-2-[4-(trifluoromethyl)phenyl]-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)

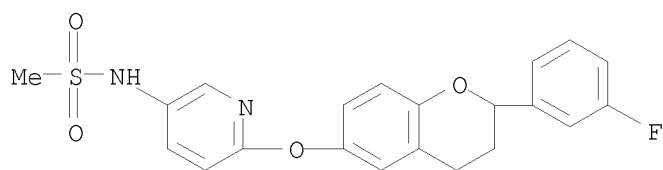


RN 488849-39-4 HCAPLUS

CN Methanesulfonamide, N-[6-[[2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)

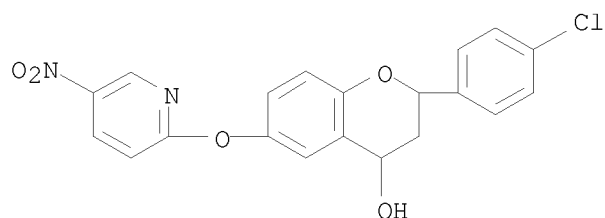
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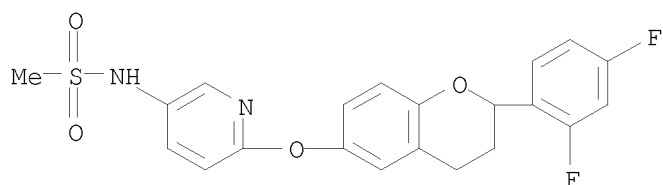
RN 488849-40-7 HCAPLUS

CN 2H-1-Benzopyran-4-ol, 2-(4-chlorophenyl)-3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)



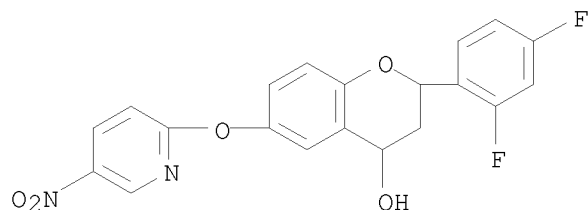
RN 488849-48-5 HCAPLUS

CN Methanesulfonamide, N-[6-[[2-(2,4-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 488849-49-6 HCAPLUS

CN 2H-1-Benzopyran-4-ol, 2-(2,4-difluorophenyl)-3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)

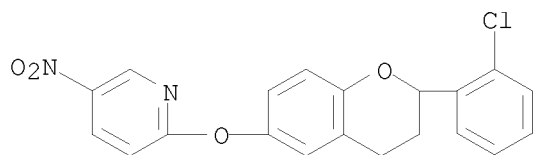


RN 488849-50-9 HCAPLUS

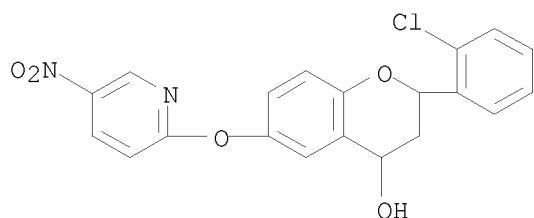
CN Pyridine, 2-[[2-(2-chlorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)

Updated Search

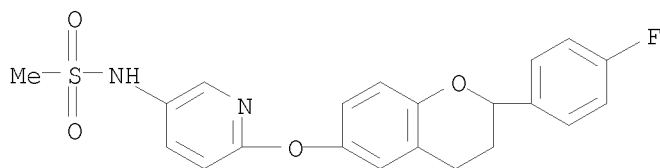
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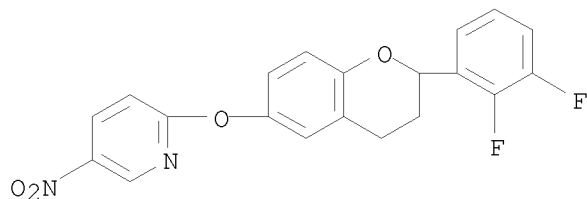
RN 488849-54-3 HCAPLUS
CN 2H-1-Benzopyran-4-ol, 2-(2-chlorophenyl)-3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)



RN 488849-60-1 HCAPLUS
CN Methanesulfonamide, N-[6-[[2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]- (CA INDEX NAME)



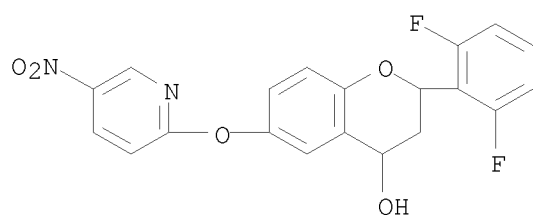
RN 488849-61-2 HCAPLUS
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RN 488849-65-6 HCAPLUS
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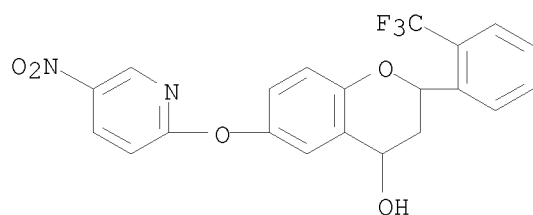
Updated Search

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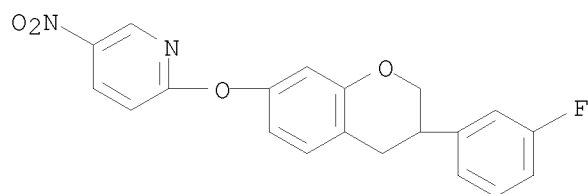
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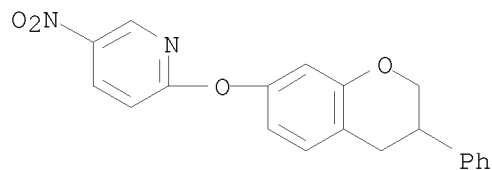
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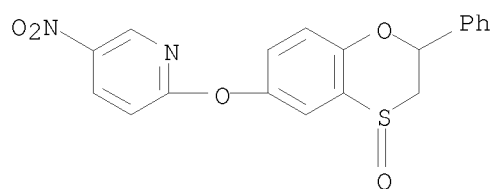


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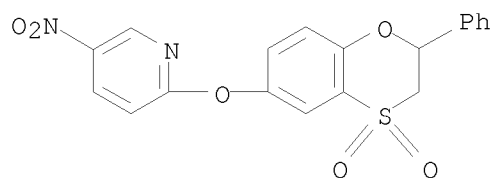
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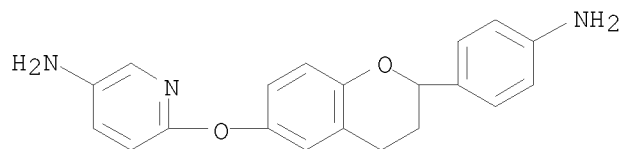
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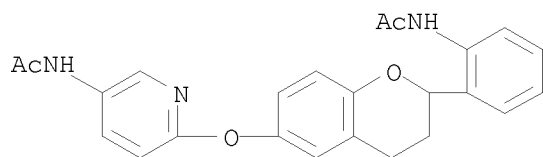
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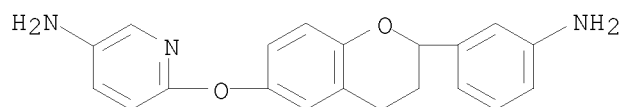
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RN 488849-98-5 HCAPLUS

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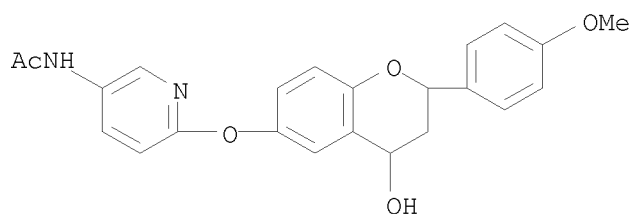


Updated Search

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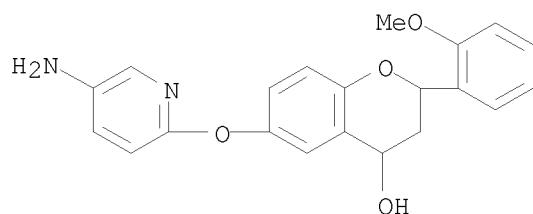
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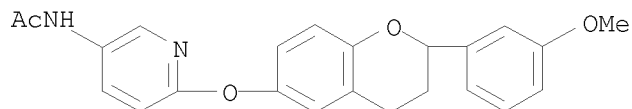
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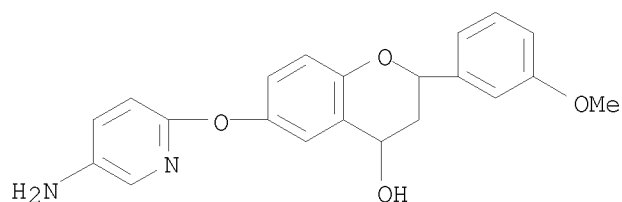
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RN 488850-12-0 HCAPLUS

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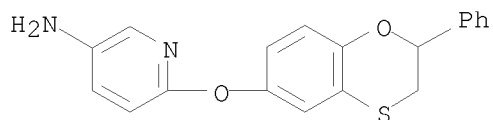


RN 488850-13-1 HCAPLUS

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Updated Search

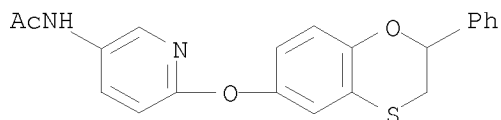
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● 2 HCl

RN 488850-14-2 HCAPLUS

CN Acetamide, N-[6-[(2,3-dihydro-2-phenyl-1,4-benzoxathiin-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



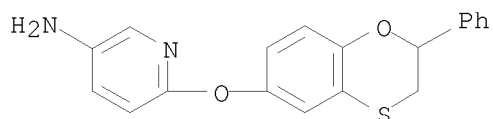
IT 488850-15-3, [6-[(2-Phenyl-2,3-dihydrobenzo[1,4]oxathiin-6-yl)oxy]pyridin-3-yl]amine

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na⁺/Ca²⁺ exchange mechanism for treatment of arrhythmias)

RN 488850-15-3 HCAPLUS

CN 3-Pyridinamine, 6-[(2,3-dihydro-2-phenyl-1,4-benzoxathiin-6-yl)oxy]- (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file caold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

13.59	574.36
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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Updated Search

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAOLD will be discontinued and removed from associated database clusters.

- . November 22, 2008 - removed from database clusters
- . December 31, 2008 - removed from STN

Content previously available only in CAOLD is now available in CA/CAPLUS. To learn more about the options available for transferring saved search queries and answer sets to CA/CAPLUS, contact your STN Service Center.

=> d his

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L9 0 S L7

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L10 STRUCTURE UPLOADED
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Updated Search

10541677

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FILE 'CAOLD' ENTERED AT 17:48:39 ON 05 SEP 2008

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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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L22 STRUCTURE UPLOADED

Updated Search

10541677

=> s 122

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INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
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FULL FILE PROJECTIONS: ONLINE **COMPLETE**
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PROJECTED ITERATIONS: 445278 TO 463322
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L23 0 SEA SSS SAM L22

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THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

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100.0% PROCESSED 453027 ITERATIONS 178 ANSWERS
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L24 178 SEA SSS FUL L22

=> file hcaplus

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FILE COVERS 1907 - 5 Sep 2008 VOL 149 ISS 11

FILE LAST UPDATED: 4 Sep 2008 (20080904/ED)

HCAplus now includes complete International Patent Classification (IPC)

Updated Search

10541677

reclassification data for the second quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L26 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:58077 HCAPLUS
DOCUMENT NUMBER: 138:122550
TITLE: Preparation of phenyl chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na⁺/Ca²⁺ exchange mechanism for treatment of arrhythmias
INVENTOR(S): Koskelainen, Tuula; Otsomaa, Leena; Karjalainen, Arto; Kotovuori, Pekka; Tenhunen, Jukka; Rasku, Sirpa; Nore, Pentti; Tiainen, Eija; Toermaekangas, Olli
PATENT ASSIGNEE(S): Orion Corporation, Finland
SOURCE: PCT Int. Appl., 98 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003006452	A1	20030123	WO 2002-FI621	20020710
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
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AU 2002321339	A1	20030129	AU 2002-321339	20020710
AU 2002321339	B2	20070621		
EP 1412343	A1	20040428	EP 2002-755036	20020710
EP 1412343	B1	20060830		

Updated Search

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK

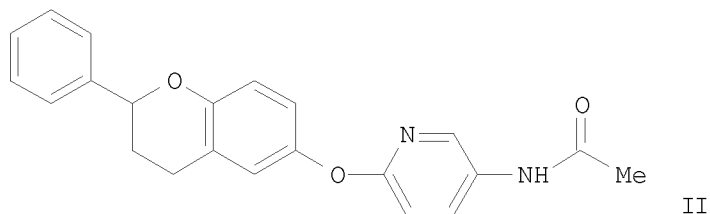
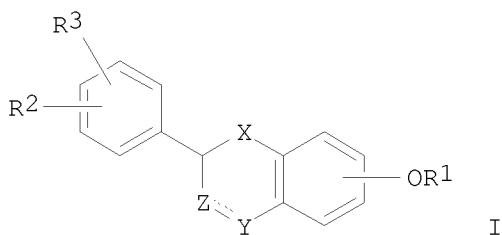
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NZ 530490	A	20051223	NZ 2002-530490	20020710
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ZA 2004000145	A	20050408	ZA 2004-145	20040108
MX 2004PA00267	A	20040723	MX 2004-PA267	20040109
US 20040235905	A1	20041125	US 2004-482396	20040608
HK 1068611	A1	20070112	HK 2005-100708	20050127

PRIORITY APPLN. INFO.:

FI 2001-1507	A	20010710
WO 2002-FI621	W	20020710

OTHER SOURCE(S): MARPAT 138:122550

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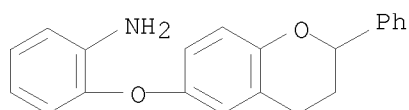


AB Title therapeutically active compds. I [wherein X = O, CH₂, or CO; Z = CHR₉ or bond; Y = CH₂, CO, CHOR₁₀, CHNR₁₁R₁₂, O, S, SO, or SO₂, provided that when Z = a bond, Y ≠ CO; the dashed line = optional double bond when Z = CR₉ and Y = CH, COR₁₀, or CNR₁₁R₁₂; R₁ = (CH₂)_nNR₄R₇ or dihydroimidazolylmethyl or (un)substituted 2-aminophenyl or 2-pyridyl; n = 1-4; R₂ and R₃ = independently H, alkyl, alkoxy, NO₂, halo, CF₃, OH, NHR₈, or CO₂H; R₄ and R₇ = independently H or (hydroxy)alkyl; R₈ = H or acyl; R₉ = H or alkyl; R₁₀ = H, alkylsulfonyl, or acyl; R₁₁ and R₁₂ = independently H, alkyl, or acyl; and pharmaceutically acceptable salts and esters thereof] were prepared as inhibitors of Na⁺/Ca²⁺ exchange mechanism in cells. For example, 6-hydroxyflavanone was reduced to 2-phenylchroman-6-ol and coupled with 2-chloro-5-nitropyridine. Reduction to the amine using glacial acetic acid and Zn powder followed by acetylation

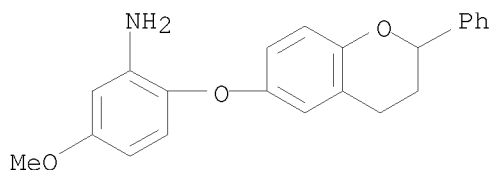
10541677

gave 5-(acetylamino)-2-(2-phenylchroman-6-yloxy)pyridine (II). The latter delayed the appearance (38 ± 7.5 min vs. vehicle) and decreased the amplitude (74 ± 16 mg vs. vehicle) of ouabain-induced arrhythmias in guinea-pig papillary muscles at a concentration of $30 \mu\text{M}$. Thus, I are useful for the treatment of arrhythmias.

IT 488848-61-9P, 2-[(2-Phenylchroman-6-yl)oxy]aniline
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(antiarrhythmic; preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of $\text{Na}^+/\text{Ca}^{2+}$ exchange mechanism for treatment of arrhythmias)
RN 488848-61-9 HCAPLUS
CN Benzenamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



IT 488847-34-3P, [5-Methoxy-2-[(2-phenylchroman-6-yl)oxy]phenyl]amine hydrochloride 488848-56-2P, 3-Acetylamino-4-[(2-phenylchroman-6-yl)oxy]anisole 488848-64-2P, 5-Trifluoromethyl-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-68-6P, 5-Amino-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-72-2P, 5-Cyano-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-76-6P, N-Acetyl-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-80-2P, 3-Amino-5-(trifluoromethyl)-2-[(2-phenylchroman-6-yl)oxy]aniline 488849-31-6P, [2-[[2-(2,5-Difluorophenyl)chroman-6-yl]oxy]-5-ethoxyphenyl]amine hydrochloride 488849-77-0P, [5-Methoxy-2-[(3-phenylchroman-7-yl)oxy]phenyl]amine hydrochloride
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(antiarrhythmic; preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of $\text{Na}^+/\text{Ca}^{2+}$ exchange mechanism for treatment of arrhythmias)
RN 488847-34-3 HCAPLUS
CN Benzenamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-methoxy-, hydrochloride (1:1) (CA INDEX NAME)



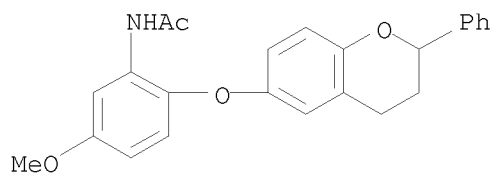
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Updated Search

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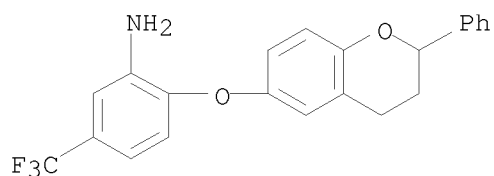
RN 488848-56-2 HCAPLUS

CN Acetamide, N-[2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-methoxyphenyl]- (CA INDEX NAME)



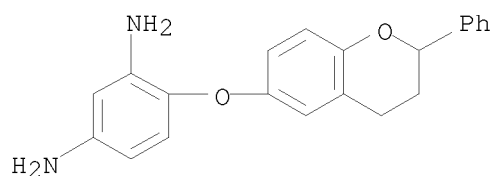
RN 488848-64-2 HCAPLUS

CN Benzenamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-(trifluoromethyl)- (CA INDEX NAME)



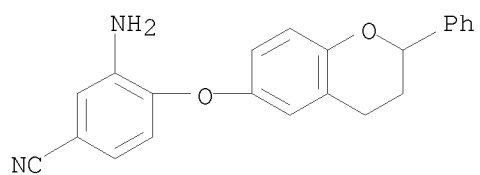
RN 488848-68-6 HCAPLUS

CN 1,3-Benzenediamine, 4-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



RN 488848-72-2 HCAPLUS

CN Benzonitrile, 3-amino-4-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)

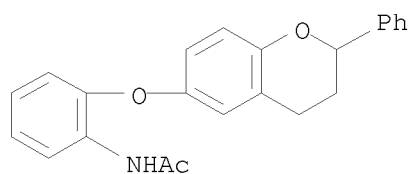


RN 488848-76-6 HCAPLUS

CN Acetamide, N-[2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]phenyl]- (CA INDEX NAME)

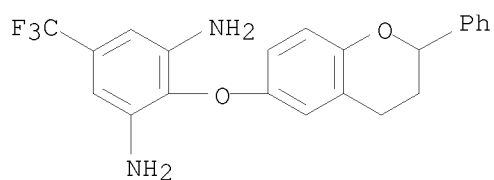
Updated Search

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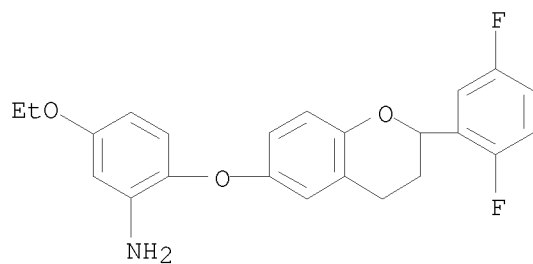
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CN 1,3-Benzenediamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-(trifluoromethyl)- (CA INDEX NAME)



RN 488849-31-6 HCAPLUS

CN Benzenamine, 2-[[2-(2,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-ethoxy-, hydrochloride (1:1) (CA INDEX NAME)



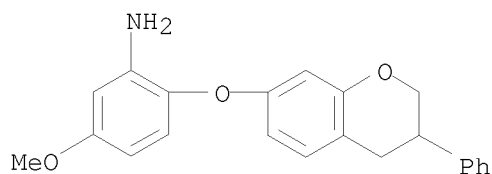
● HCl

RN 488849-77-0 HCAPLUS

CN Benzenamine, 2-[(3,4-dihydro-3-phenyl-2H-1-benzopyran-7-yl)oxy]-5-methoxy-, hydrochloride (1:1) (CA INDEX NAME)

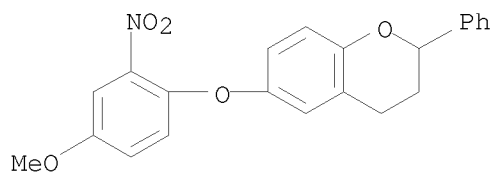
Updated Search

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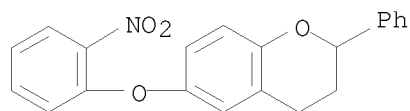


● HCl

IT 488847-36-5P, 6-(4-Methoxy-2-nitrophenoxy)-2-phenylchroman
488848-62-0P, 2-Nitro-1-[(2-phenylchroman-6-yl)oxy]benzene
488848-66-4P, 2-Nitro-1-[(2-phenylchroman-6-yl)oxy]-4-
trifluoromethylbenzene 488848-70-0P, 2,4-Dinitro-1-[(2-
phenylchroman-6-yl)oxy]benzene 488848-74-4P,
4-Cyano-2-nitro-1-[(2-phenylchroman-6-yl)oxy]benzene 488848-82-4P
, 2,6-Dinitro-1-[(2-phenylchroman-6-yl)oxy]-4-trifluoromethylbenzene
488849-32-7P, 2-(2,5-Difluorophenyl)-6-(4-ethoxy-2-
nitrophenoxy)chroman 488849-78-1P, 7-(4-Methoxy-2-nitrophenoxy)-
3-phenylchroman
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(intermediate; preparation of Ph chromans, benzo[1,4]dioxins, indans, and
naphthalenes as potent inhibitors of Na⁺/Ca²⁺ exchange mechanism for
treatment of arrhythmias)
RN 488847-36-5 HCAPLUS
CN 2H-1-Benzopyran, 3,4-dihydro-6-(4-methoxy-2-nitrophenoxy)-2-phenyl- (CA
INDEX NAME)



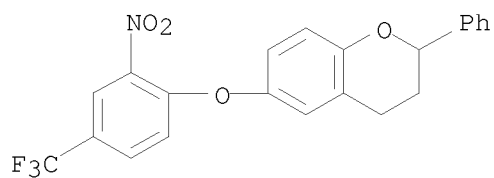
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CN 2H-1-Benzopyran, 3,4-dihydro-6-(2-nitrophenoxy)-2-phenyl- (CA INDEX NAME)



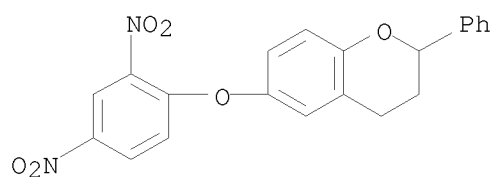
RN 488848-66-4 HCAPLUS
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Updated Search

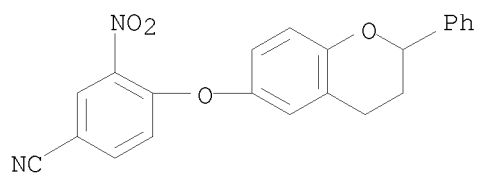
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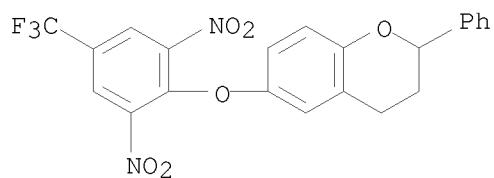
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CN 2H-1-Benzopyran, 6-(2,4-dinitrophenoxy)-3,4-dihydro-2-phenyl- (CA INDEX NAME)



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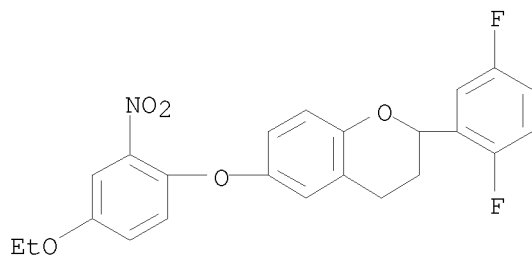
RN 488848-82-4 HCAPLUS
CN 2H-1-Benzopyran, 6-[2,6-dinitro-4-(trifluoromethyl)phenoxy]-3,4-dihydro-2-phenyl- (CA INDEX NAME)



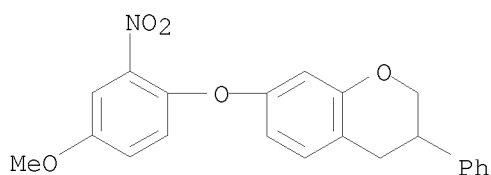
RN 488849-32-7 HCAPLUS
CN 2H-1-Benzopyran, 2-(2,5-difluorophenyl)-6-(4-ethoxy-2-nitrophenoxy)-3,4-dihydro- (CA INDEX NAME)

Updated Search

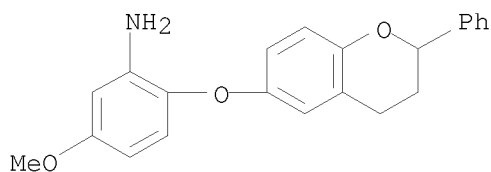
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RN 488849-78-1 HCAPLUS
CN 2H-1-Benzopyran, 3,4-dihydro-7-(4-methoxy-2-nitrophenoxy)-3-phenyl- (CA INDEX NAME)



IT 488848-57-3, 3-Amino-4-[(2-phenylchroman-6-yl)oxy]anisole
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na⁺/Ca²⁺ exchange mechanism for treatment of arrhythmias)
RN 488848-57-3 HCAPLUS
CN Benzenamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-methoxy- (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008

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L2 0 S L1
L3 STRUCTURE UPLOADED
L4 1 S L3
L5 STRUCTURE UPLOADED

Updated Search

10541677

L6 0 S L5
L7 1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008
L8 1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008
L9 0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008
L10 STRUCTURE UPLOADED
L11 0 S L10
L12 1 S L10 FULL
L13 1 S L12 NOT L7

FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008
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FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008
L15 0 S L13

FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008
L16 STRUCTURE UPLOADED
L17 14 S L16
L18 232 S L16 FULL

FILE 'HCAPLUS' ENTERED AT 17:47:49 ON 05 SEP 2008
L19 2 S L18
L20 2 S L19 AND OTSOMAA, L?/AU

FILE 'CAOLD' ENTERED AT 17:48:39 ON 05 SEP 2008
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L22 STRUCTURE UPLOADED
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=> s l27/uses
FIELD CODES CANNOT BE CHANGED HERE
You may have tried to apply a field code to a term that already has a
field code. You can only add a field code to a term that has no field
code appended to it.

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Updated Search

10541677

232 L24
7178398 USES/RL
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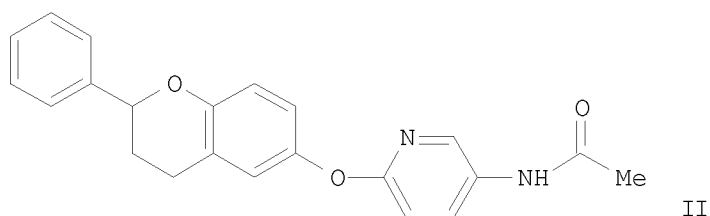
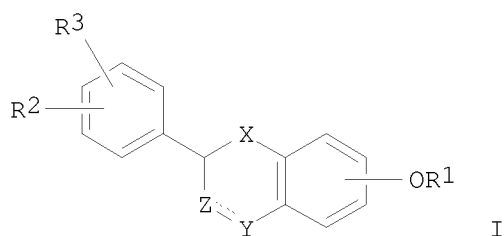
L30 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:58077 HCAPLUS
DOCUMENT NUMBER: 138:122550
TITLE: Preparation of phenyl chromans, benzo[1,4]dioxins,
indans, and naphthalenes as potent inhibitors of
Na⁺/Ca²⁺ exchange mechanism for treatment of
arrhythmias
INVENTOR(S): Koskelainen, Tuula; Otsomaa, Leena;
Karjalainen, Arto; Kotovuori, Pekka; Tenhunen, Jukka;
Rasku, Sirpa; Nore, Pentti; Tiainen, Eija;
Toermaekangas, Olli
PATENT ASSIGNEE(S): Orion Corporation, Finland
SOURCE: PCT Int. Appl., 98 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003006452	A1	20030123	WO 2002-FI621	20020710
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
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AU 2002321339	B2	20070621		
EP 1412343	A1	20040428	EP 2002-755036	20020710
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BR 2002011070	A	20040615	BR 2002-11070	20020710
CN 1525966	A	20040901	CN 2002-813863	20020710
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Updated Search

10541677

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IN 2004KN00013	A	20061103	IN 2004-KN13	20040105
ZA 2004000145	A	20050408	ZA 2004-145	20040108
MX 2004PA00267	A	20040723	MX 2004-PA267	20040109
US 20040235905	A1	20041125	US 2004-482396	20040608
HK 1068611	A1	20070112	HK 2005-100708	20050127
PRIORITY APPLN. INFO.:			FI 2001-1507	A 20010710
OTHER SOURCE(S):			WO 2002-FI621	W 20020710
GI			MARPAT 138:122550	



AB Title therapeutically active compds. I [wherein X = O, CH₂, or CO; Z = CHR₉ or bond; Y = CH₂, CO, CHOR₁₀, CHNR₁₁R₁₂, O, S, SO, or SO₂, provided that when Z = a bond, Y ≠ CO; the dashed line = optional double bond when Z = CR₉ and Y = CH, COR₁₀, or CNR₁₁R₁₂; R₁ = (CH₂)_nNR₄R₇ or dihydroimidazolylmethyl or (un)substituted 2-aminophenyl or 2-pyridyl; n = 1-4; R₂ and R₃ = independently H, alkyl, alkoxy, NO₂, halo, CF₃, OH, NHR₈, or CO₂H; R₄ and R₇ = independently H or (hydroxy)alkyl; R₈ = H or acyl; R₉ = H or alkyl; R₁₀ = H, alkylsulfonyl, or acyl; R₁₁ and R₁₂ = independently H, alkyl, or acyl; and pharmaceutically acceptable salts and esters thereof] were prepared as inhibitors of Na⁺/Ca²⁺ exchange mechanism in cells. For example, 6-hydroxyflavanone was reduced to 2-phenylchroman-6-ol and coupled with 2-chloro-5-nitropyridine. Reduction to the amine using glacial acetic acid and Zn powder followed by acetylation gave 5-(acetylamino)-2-(2-phenylchroman-6-yloxy)pyridine (II). The latter delayed the appearance (38 ± 7.5 min vs. vehicle) and decreased the amplitude (74 ± 16 mg vs. vehicle) of ouabain-induced arrhythmias in guinea-pig papillary muscles at a concentration of 30 μM. Thus, I are useful for the treatment of arrhythmias.

IT 488848-61-9P, 2-[(2-Phenylchroman-6-yl)oxy]aniline
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

Updated Search

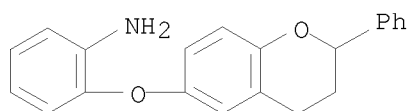
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(Preparation); RACT (Reactant or reagent); USES (Uses)

(antiarrhythmic; preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na⁺/Ca²⁺ exchange mechanism for treatment of arrhythmias)

RN 488848-61-9 HCAPLUS

CN Benzenamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



IT 488847-34-3P, [5-Methoxy-2-[(2-phenylchroman-6-yl)oxy]phenyl]amine hydrochloride 488848-56-2P, 3-Acetylamino-4-[(2-phenylchroman-6-yl)oxy]anisole 488848-64-2P, 5-Trifluoromethyl-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-68-6P,

5-Amino-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-72-2P,

5-Cyano-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-76-6P,

N-Acetyl-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-80-2P,

3-Amino-5-(trifluoromethyl)-2-[(2-phenylchroman-6-yl)oxy]aniline

488849-31-6P, [2-[[2-(2,5-Difluorophenyl)chroman-6-yl]oxy]-5-

ethoxyphenyl]amine hydrochloride 488849-77-0P,

[5-Methoxy-2-[(3-phenylchroman-7-yl)oxy]phenyl]amine hydrochloride

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

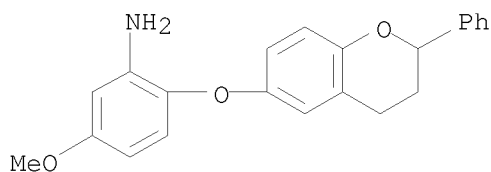
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)

(antiarrhythmic; preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na⁺/Ca²⁺ exchange mechanism for treatment of arrhythmias)

RN 488847-34-3 HCAPLUS

CN Benzenamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-methoxy-, hydrochloride (1:1) (CA INDEX NAME)



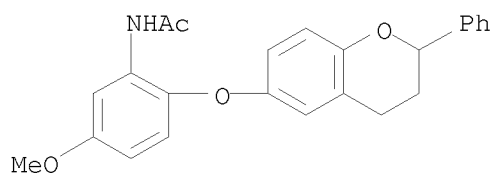
● HCl

RN 488848-56-2 HCAPLUS

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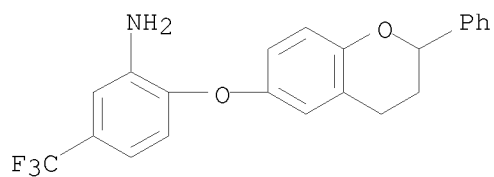
Updated Search

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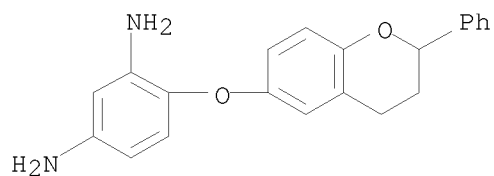
RN 488848-64-2 HCAPLUS

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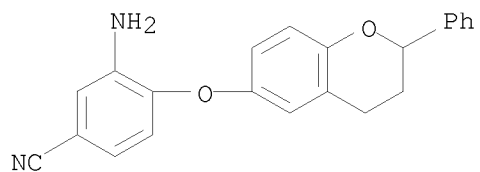
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CN 1,3-Benzenediamine, 4-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



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CN Benzonitrile, 3-amino-4-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)

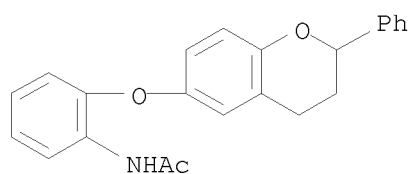


RN 488848-76-6 HCAPLUS

CN Acetamide, N-[2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]phenyl]- (CA INDEX NAME)

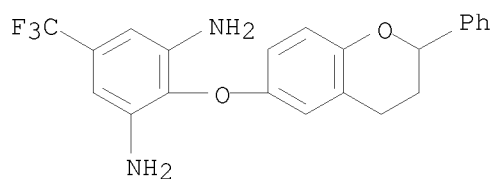
Updated Search

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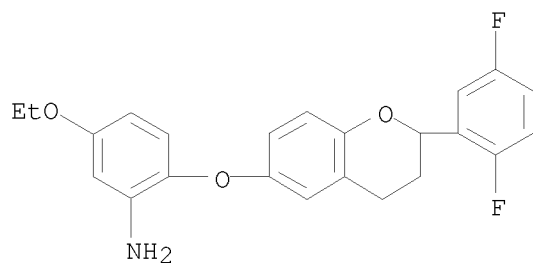
RN 488848-80-2 HCAPLUS

CN 1,3-Benzenediamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-(trifluoromethyl)- (CA INDEX NAME)



RN 488849-31-6 HCAPLUS

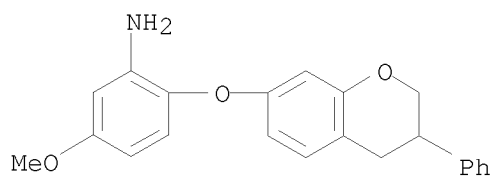
CN Benzenamine, 2-[[2-(2,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-ethoxy-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 488849-77-0 HCAPLUS

CN Benzenamine, 2-[(3,4-dihydro-3-phenyl-2H-1-benzopyran-7-yl)oxy]-5-methoxy-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

Updated Search

10541677

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008

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L3 STRUCTURE UPLOADED
L4 1 S L3
L5 STRUCTURE UPLOADED
L6 0 S L5
L7 1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008

L8 1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008

L9 0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008

L10 STRUCTURE UPLOADED
L11 0 S L10
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FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008

L15 0 S L13

FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008

L16 STRUCTURE UPLOADED
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L20 2 S L19 AND OTSOMAA, L?/AU

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FILE 'REGISTRY' ENTERED AT 17:49:36 ON 05 SEP 2008

L22 STRUCTURE UPLOADED
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L27 232 S L24

Updated Search

10541677

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L31 ANSWER 1 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:191791 HCAPLUS

DOCUMENT NUMBER: 148:246497

TITLE: Compositions and methods for potentiating antibiotic activity using an ATP receptor antagonist, coumarin, flavone, or terpene

INVENTOR(S): Cottarel, Guillaume; Gardner, Timothy S.; Lei, Xiaoguang; Porco, John; Schaus, Scott E.; Wierzbowski, Jamey; Pal, Kollol

PATENT ASSIGNEE(S): Trustees of Boston University, USA

SOURCE: PCT Int. Appl., 102pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008019292	A2	20080214	WO 2007-US75093	20070802
WO 2008019292	A3	20080814		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN,			

Updated Search

10541677

TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: US 2006-835710P P 20060804

AB The present invention provides compds. that potentiate the activity of antibiotic agents, particularly quinolones, such as norfloxacin. The invention further provides compns., e.g., pharmaceutical compns., comprising the inventive compds. The invention also provides compns. comprising an antibiotic (e.g., a quinolone) and a compound that potentiates activity of the antibiotic and methods of treating a subject comprising administering any of the inventive compds. or compns. to the subject. The invention also provides screening methods to identify compds. that potentiate the activity of an antibiotic, e.g., a quinolone. Thus, both CB101 and CB201 at low concns. (in the lower $\mu\text{g/mL}$ range) were effective against Staphylococcus clin. isolates resistant to ciprofloxacin. CB101 potentiated ciprofloxacin activity after S. aureus infection of mice with moderately fluoroquinolone-resistant S7 Staphylococcus isolate.

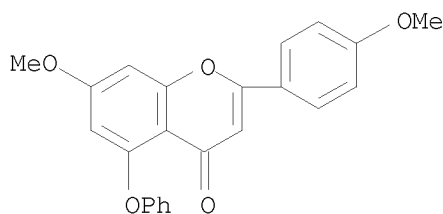
IT 1005519-30-1D, derivs.

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(ATP receptor antagonist, coumarin, flavone, or terpene for potentiating quinolone antibiotic activity)

RN 1005519-30-1 HCAPLUS

CN 4H-1-Benzopyran-4-one, 7-methoxy-2-(4-methoxyphenyl)-5-phenoxy- (CA INDEX NAME)



L31 ANSWER 2 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:86509 HCAPLUS

DOCUMENT NUMBER: 148:509915

TITLE: Anti-inflammatory and anti-allergic drug composition containing biflavonoid derivatives

INVENTOR(S): Kim, Hyeon Pyo; Park, Hae Il; Jang, Hyeon Uk

PATENT ASSIGNEE(S): Kangwon National University, University-Industry Cooperation Foundation, S. Korea

SOURCE: Repub. Korean Kongkae Taeho Kongbo, 28pp.

CODEN: KRXXA7

DOCUMENT TYPE: Patent

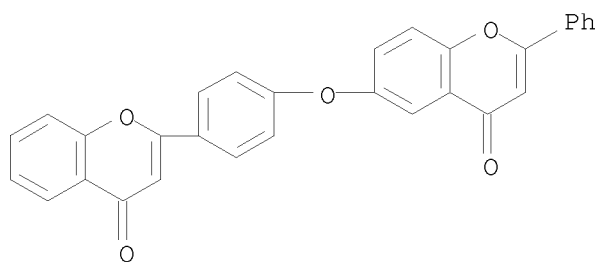
LANGUAGE: Korean

FAMILY ACC. NUM. COUNT: 1

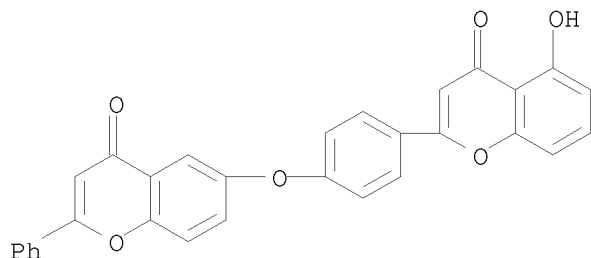
PATENT INFORMATION:

10541677

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
	KR 2007121203	A	20071227	KR 2006-55964	20060621
PRIORITY APPLN. INFO.:				KR 2006-55964	20060621
AB	The title anti-inflammatory and anti-allergic drug composition contains biflavonoid derivative or its pharmaceutically acceptable salt as the effective component. Biflavonoid derivs. inhibit the activities of phospholipase A2, thus can be used in drug compns. and healthcare foods that can prevent and treat inflammations and allergies.				
IT	1022125-75-2 1022125-77-4 1022125-78-5 1022125-79-6 1022125-82-1 1022125-85-4 1022125-86-5 1022125-87-6 1022125-88-7 1022125-89-8 1022125-91-2 1022125-95-6 1022125-96-7 1022125-97-8 1022125-98-9 1022126-00-6 1022126-03-9 1022126-05-1 1022126-06-2 1022126-08-4 1022126-09-5 1022126-13-1 1022126-14-2 1022126-16-4 1022126-17-5				
	RL: FFD (Food or feed use); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (anti-inflammatory and anti-allergic drug composition containing biflavonoid derivs.)				
RN	1022125-75-2 HCAPLUS				
CN	4H-1-Benzopyran-4-one, 6-[4-(4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2-phenyl- (CA INDEX NAME)				



RN 1022125-77-4 HCAPLUS
CN 4H-1-Benzopyran-4-one, 5-hydroxy-2-[4-[(4-oxo-2-phenyl-4H-1-benzopyran-6-yl)oxy]phenyl]- (CA INDEX NAME)

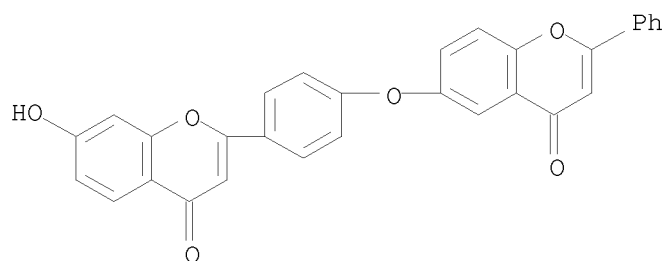


RN 1022125-78-5 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[4-(7-hydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-

Updated Search

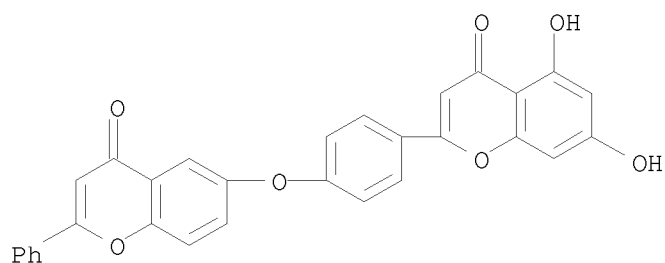
10541677

2-phenyl- (CA INDEX NAME)



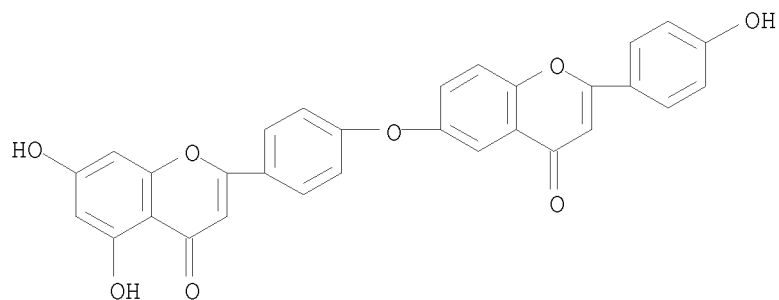
RN 1022125-79-6 HCAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-[4-[(4-oxo-2-phenyl-4H-1-benzopyran-6-yl)oxy]phenyl]- (CA INDEX NAME)



RN 1022125-82-1 HCAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-[4-[[2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-6-yl]oxy]phenyl]- (CA INDEX NAME)

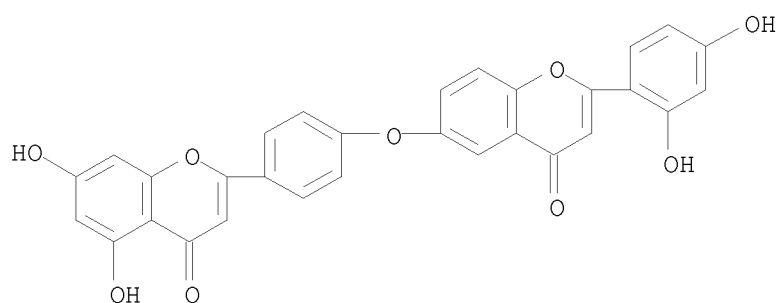


RN 1022125-85-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-[4-[[2-(2,4-dihydroxyphenyl)-4-oxo-4H-1-benzopyran-6-yl]oxy]phenyl]-5,7-dihydroxy- (CA INDEX NAME)

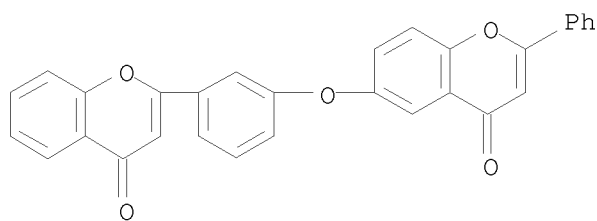
Updated Search

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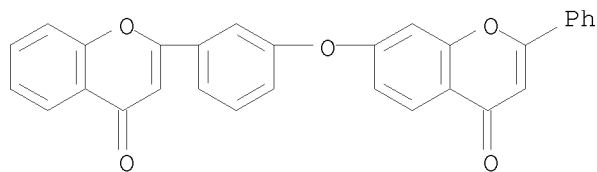
RN 1022125-86-5 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[3-(4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2-phenyl-
(CA INDEX NAME)



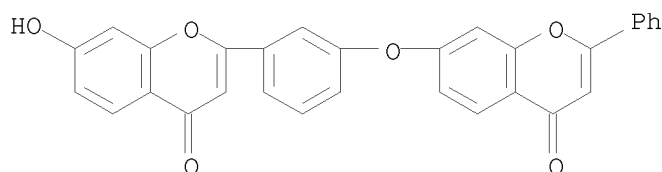
RN 1022125-87-6 HCAPLUS

CN 4H-1-Benzopyran-4-one, 7-[3-(4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2-phenyl-
(CA INDEX NAME)



RN 1022125-88-7 HCAPLUS

CN 4H-1-Benzopyran-4-one, 7-[3-(7-hydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-
2-phenyl- (CA INDEX NAME)



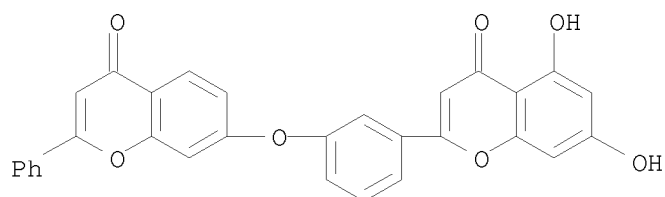
RN 1022125-89-8 HCAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-[3-[(4-oxo-2-phenyl-4H-1-benzopyran-

Updated Search

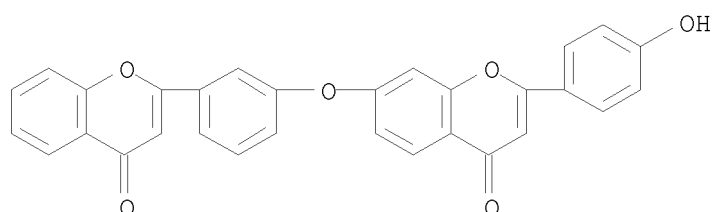
10541677

7-yl)oxy]phenyl]- (CA INDEX NAME)



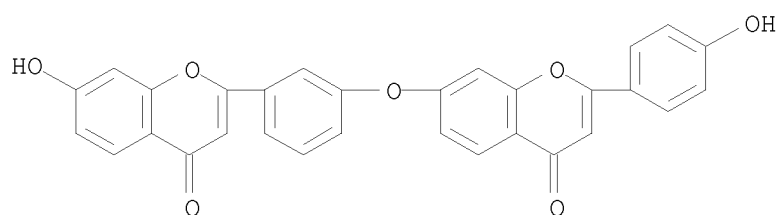
RN 1022125-91-2 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-(4-hydroxyphenyl)-7-[3-(4-oxo-4H-1-benzopyran-2-yl)phenoxy]- (CA INDEX NAME)



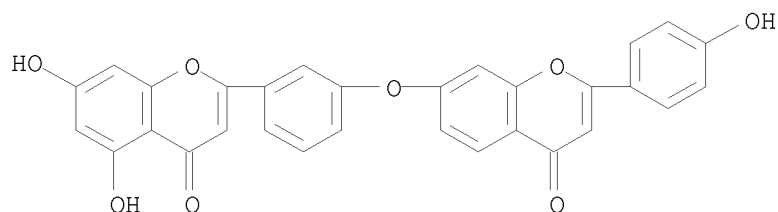
RN 1022125-95-6 HCAPLUS

CN 4H-1-Benzopyran-4-one, 7-hydroxy-2-[3-[[2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]phenyl]- (CA INDEX NAME)



RN 1022125-96-7 HCAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-[3-[[2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]phenyl]- (CA INDEX NAME)



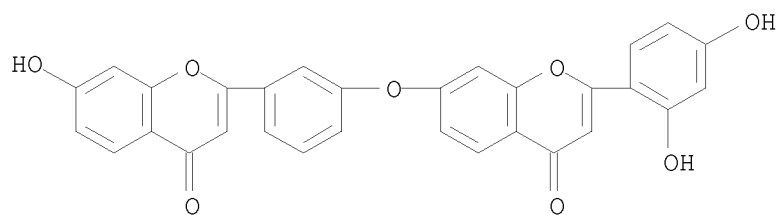
RN 1022125-97-8 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-(2,4-dihydroxyphenyl)-7-[3-(7-hydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]- (CA INDEX NAME)

Updated Search

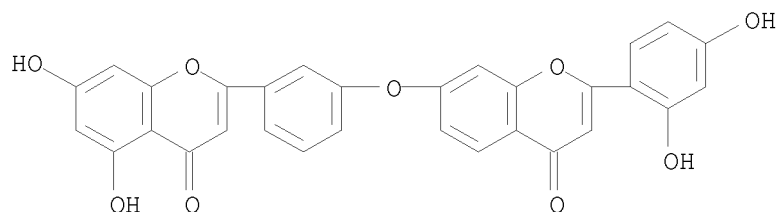
10541677

benzopyran-2-yl)phenoxy]- (CA INDEX NAME)



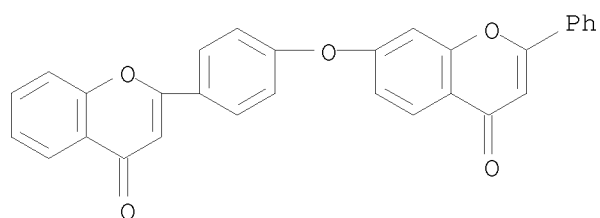
RN 1022125-98-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-[3-[[2-(2,4-dihydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]phenyl]-5,7-dihydroxy- (CA INDEX NAME)



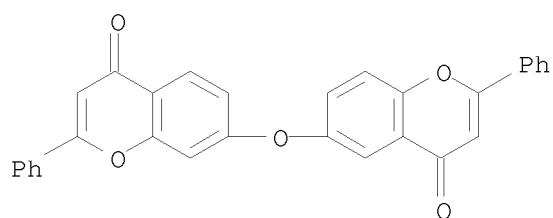
RN 1022126-00-6 HCAPLUS

CN 4H-1-Benzopyran-4-one, 7-[4-(4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2-phenyl- (CA INDEX NAME)



RN 1022126-03-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[(4-oxo-2-phenyl-4H-1-benzopyran-7-yl)oxy]-2-phenyl- (CA INDEX NAME)

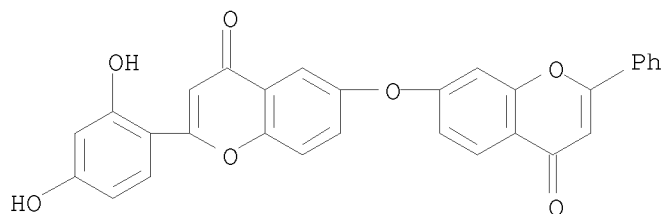


Updated Search

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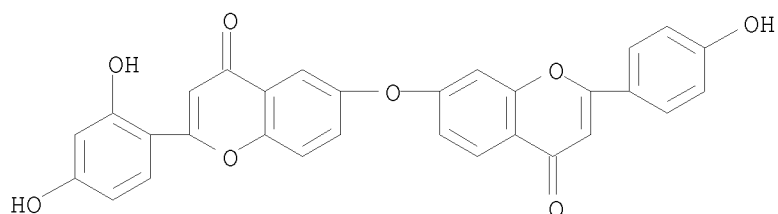
RN 1022126-05-1 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-(2,4-dihydroxyphenyl)-6-[(4-oxo-2-phenyl-4H-1-benzopyran-7-yl)oxy]- (CA INDEX NAME)



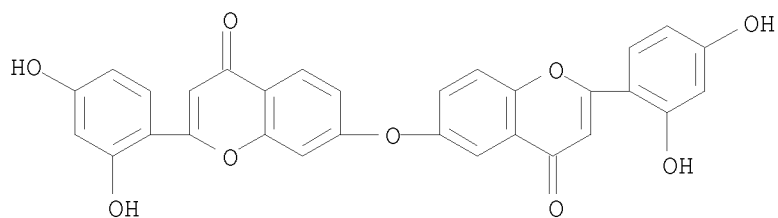
RN 1022126-06-2 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-(2,4-dihydroxyphenyl)-6-[[2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]- (CA INDEX NAME)



RN 1022126-08-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-(2,4-dihydroxyphenyl)-6-[[2-(2,4-dihydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]- (CA INDEX NAME)

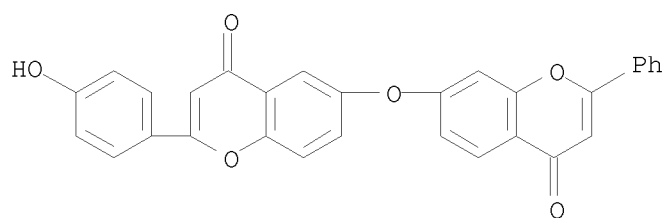


RN 1022126-09-5 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-(4-hydroxyphenyl)-6-[(4-oxo-2-phenyl-4H-1-benzopyran-7-yl)oxy]- (CA INDEX NAME)

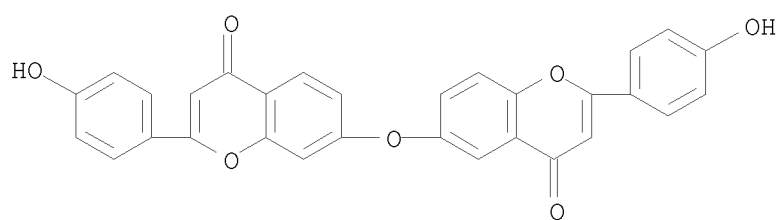
Updated Search

10541677



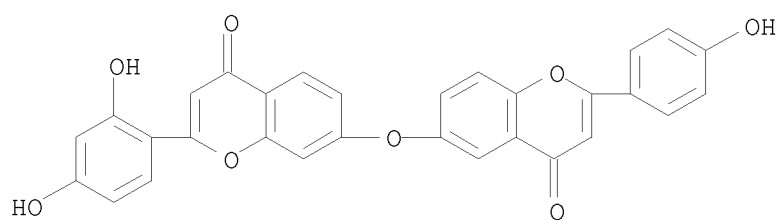
RN 1022126-13-1 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-(4-hydroxyphenyl)-6-[[2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]- (CA INDEX NAME)



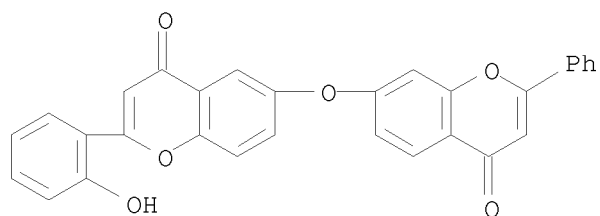
RN 1022126-14-2 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[[2-(2,4-dihydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]-2-(4-hydroxyphenyl)- (CA INDEX NAME)



RN 1022126-16-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-(2-hydroxyphenyl)-6-[(4-oxo-2-phenyl-4H-1-benzopyran-7-yl)oxy]- (CA INDEX NAME)

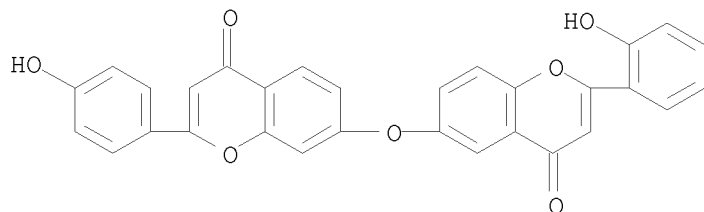


RN 1022126-17-5 HCAPLUS

Updated Search

10541677

CN 4H-1-Benzopyran-4-one, 2-(2-hydroxyphenyl)-6-[[2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]- (CA INDEX NAME)



L31 ANSWER 3 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1158844 HCAPLUS

DOCUMENT NUMBER: 147:474681

TITLE: Composition containing bisflavone compounds for treating gout

INVENTOR(S): Chen, Keli; Tan, Wenjie; Xu, Jiacheng; Li, Li; Jiang, Xueping; Fan, Xiaolei

PATENT ASSIGNEE(S): Hubei College of Traditional Chinese Medicine, Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 10pp.

CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
CN 101049301	A	20071010	CN 2007-10052157	20070514
PRIORITY APPLN. INFO.:			CN 2007-10052157	20070514

AB The title drug is composed of at least one of purified or un-purified or synthetic robustaflavone, 4'-O-Me robustaflavone, 7'''-O-Me robustaflavone, amentoflavone, hinokiflavone, sotetsuflavone, isocryptomerin, bilobetin, ginkgetin, imbricataflavone A, imbricataflavone B, agathisflavone, volkensiflavone, morelloflavone, and 2'', 3'''-dihydro-4'-O-Me amentoflavone, and adjuvant. The drug has remarkable oxidation resistance, can alleviate hyperuricemia and its secondary inflammation, and can prevent and treat gout.

IT 19202-36-9, Hinokiflavone 20931-58-2, Isocryptomerin

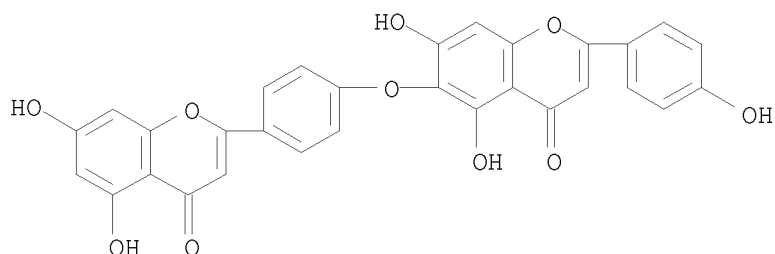
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(composition containing bisflavone compds. for treating gout)

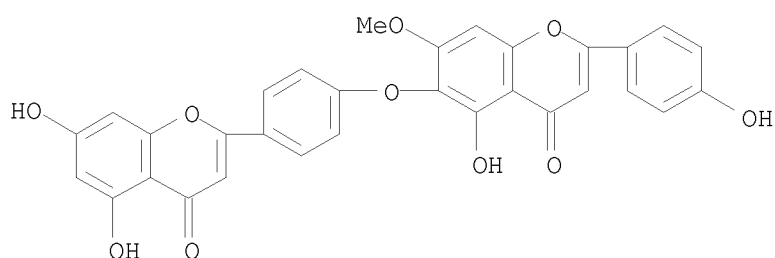
RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)

10541677



RN 20931-58-2 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)



L31 ANSWER 4 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:1093960 HCAPLUS
DOCUMENT NUMBER: 147:461924
TITLE: Antiplatelet effect and selective binding to cyclooxygenase (COX) by molecular docking analysis of flavonoids and lignans
AUTHOR(S): Wu, Chien-Ming; Wu, Shu-Chun; Chung, Wan-Jung; Lin, Hsien-Cheng; Chen, Kun-Tze; Chen, Yu-Chian; Hsu, Mei-Feng; Yang, Jwu-Maw; Wang, Jih-Pyang; Lin, Chun-Nan
CORPORATE SOURCE: Department of Physical Medicine and Rehabilitation, Yuan's General Hospital, Kaohsiung, 802, Taiwan
SOURCE: International Journal of Molecular Sciences (2007), 8(8), 830-841
CODEN: IJMCFK; ISSN: 1422-0067
URL: <http://www.mdpi.org/ijms/papers/i8080830.pdf>
PUBLISHER: Molecular Diversity Preservation International
DOCUMENT TYPE: Journal; (online computer file)
LANGUAGE: English
AB The known flavonoids ginkgetin (1), taiwanhomoflavone A (2), taiwanhomoflavone B (3), and taiwanhomoflavone C (4) and eight known lignans: justicidin B (9), justicidin C (10), justicidin D (11), chinensinaphthol Me ether (12), procumphthalide A (13), procumbenoside A (15), and ciliatosides A (16) and B (17) were isolated from *Cephalotaxus wilsoniana* and *Justicia* species, resp. The antiplatelet effects of the above constituents on human platelet-rich plasma (PRP) were evaluated. Of the compds. tested on human PRP, compds. 1, 4, 9, and 11 showed inhibition of secondary aggregation induced by adrenaline. Compound 1 had an

Updated Search

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inhibitory effect on cyclooxygenase-1 (COX-1). Mol. docking studies revealed that 1 and the related compds. apigenin (5), cycloheterophyllin (6), brousoflavone F (7), and quercetin (8) were docked near the gate of active site of COX-1. It indicated that the antiplatelet effect of 1, 4, 9, and 11 is partially owed to suppression of COX-1 activity and reduced thromboxane formation. Flavonoids, 1, 5, 6, 7, and 8 may block the gate of the active site of COX-1 and interfere the conversion of arachidonic acid to prostaglandin (PG) H2 in the COX-1 active site.

IT 509077-91-2, Taiwanhomoflavone B

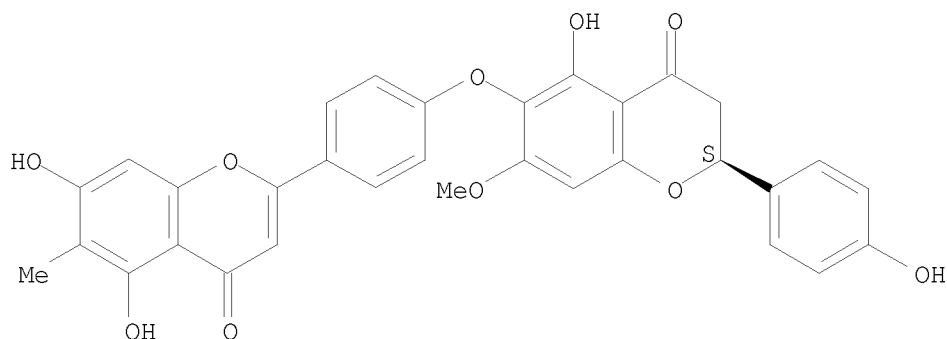
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antiplatelet effect and selective binding to cyclooxygenase by mol. docking anal. of flavonoids and lignans)

RN 509077-91-2 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-6-methyl-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2,3-dihydro-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy-, (2S)-(CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 5 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:966573 HCAPLUS

DOCUMENT NUMBER: 147:315008

TITLE: Reca inhibitors with antibiotic activity, compositions and methods of use

INVENTOR(S): Cottarel, Guillaume; Wierzbowski, Jamey; Pal, Kollol; Kohanski, Michael; Dwyer, Daniel; Collins, James; Almstetter, Michael; Thormann, Michael; Treml, Andreas

PATENT ASSIGNEE(S): Trustees of Boston University, USA; Cellicon Biotechnologies, Inc.; Puretech Ventures

SOURCE: PCT Int. Appl., 95pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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Updated Search

WO 2007097940 A2 20070830 WO 2007-US3712 20070213
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
 KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK,
 MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
 RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,
 TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

US 2006-772648P P 20060213
 US 2006-835596P P 20060804

OTHER SOURCE(S): MARPAT 147:315008

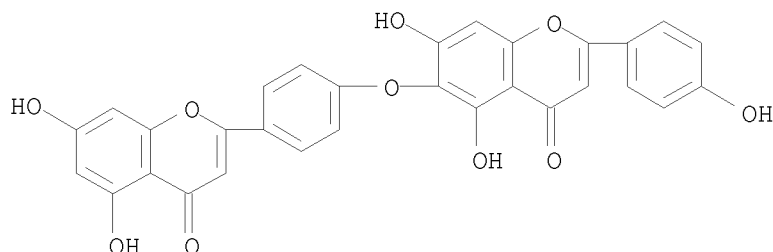
AB The invention is directed to the use of RecA inhibitors as antibiotic agents, and provides RecA inhibitors useful in treating infections. Also provided are various compns. and methods associated with RecA inhibition. Hinokiflavone potentiated the antibiotic activity of ciprofloxacin against Staphylococcus aureus by targeting RecA.

IT 19202-36-9, Hinokiflavone

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (antibiotic RecA inhibitor compns. and methods for treatment of microbial infections)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



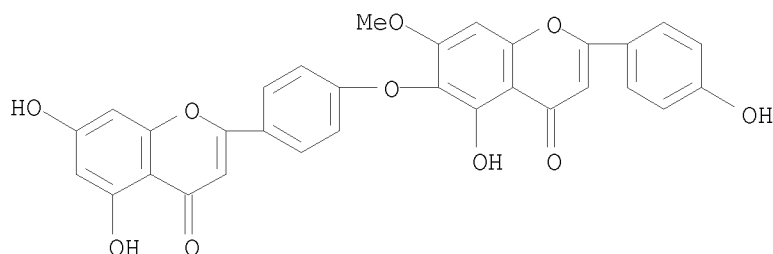
IT 20931-58-2, Isocryptomerin

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (antibiotic RecA inhibitor compns. and methods for treatment of microbial infections)

RN 20931-58-2 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)

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L31 ANSWER 6 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:941834 HCAPLUS
DOCUMENT NUMBER: 147:292162
TITLE: Identification of genes playing a role in bacterial antibiotic resistance and screening for compounds potentiating antibiotics
INVENTOR(S): Cottarel, Guillaume; Wierzbowski, Jamey; Pal, Kollol; Kohanski, Michael; Dwyer, Daniel; Collins, James; Almstetter, Michael; Thormann, Michael; Trembl, Andreas
PATENT ASSIGNEE(S): Trustees of Boston University, USA; Cellicon Biotechnologies, Inc.; Puretech Ventures
SOURCE: PCT Int. Appl., 216pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007095187	A2	20070823	WO 2007-US3698	20070213
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: US 2006-772648P P 20060213
US 2006-835596P P 20060804

OTHER SOURCE(S): MARPAT 147:292162

AB Chromosomal genes of bacteria that contribute to endogenous resistance to antibiotics are identified. The genes and their products can be targets for inhibitors that potentiate the activity of the antibiotic, such as a quinolone antibiotic. The method can be used to potentiate the activity of antibiotics such as quinolones, aminoglycosides, peptide antibiotics and β -lactams. These agents can also be used to suppress or delay the development of resistance to antibiotics. A whole genome deletion library of Escherichia coli was screened for deletions that modified the

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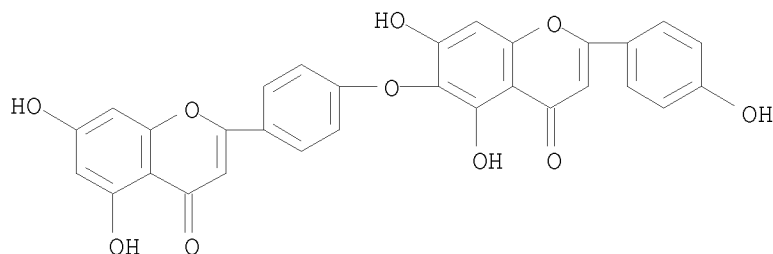
response of the cell to norfloxacin. The screen identified 188 genes affecting fluoroquinolone sensitivity that were common to Escherichia coli and Staphylococcus aureus. Mutation in the recA gene increased sensitivity to norfloxacin by 104, so inhibitors of the recA DNA-dependent ATPase may be used in combination with fluoroquinolones. Screening of several libraries identified 14 compds. that inhibit the recA recombinase and increase sensitivity to fluoroquinolones.

IT 19202-36-9, Hinokiflavone

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(as inhibitor of RecA recombinase; identification of genes playing role in bacterial antibiotic resistance and screening for compds. potentiating antibiotics)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



L31 ANSWER 7 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:502298 HCAPLUS

DOCUMENT NUMBER: 146:481157

TITLE: Beverage composition and method of preventing degradation of vitamins in beverages

INVENTOR(S): Roy, Glenn

PATENT ASSIGNEE(S): Pepsico, Inc., USA

SOURCE: Eur. Pat. Appl., 18pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
EP 1782701	A1	20070509	EP 2006-255667	20061103
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
US 20070110851	A1	20070517	US 2005-267376	20051104
CA 2567000	A1	20070504	CA 2006-2567000	20061101
JP 2007125018	A	20070524	JP 2006-298834	20061102
CN 101069563	A	20071114	CN 2006-10130993	20061102
MX 2006PA12784	A	20071010	MX 2006-PA12784	20061103
IN 2006CH02029	A	20071207	IN 2006-CH2029	20061103
PRIORITY APPLN. INFO.:			US 2005-267376	A 20051104

Updated Search

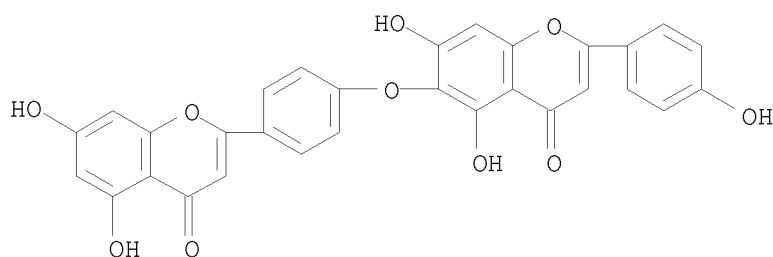
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AB A vitamin fortified composition comprising vitamin stabilizers which are C6-C3 phenylpropenoic carbonyl compds. to prevent the degradation of the vitamins is provided. In addition, a method of preventing the degradation of vitamins in a vitamin fortified composition is provided. Thus, a clear lemon-lime carbonated soft drink with vitamin C and ethylene-diaminetetraacetic acid (EDTA) was prepared

IT 19202-36-9, Hinokiflavone
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(beverage composition and method of preventing degradation of vitamins in beverages)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 8 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:325265 HCAPLUS

DOCUMENT NUMBER: 147:397867

TITLE: QSAR analysis of the lipid peroxidation inhibitory activity with structure and energetics of 36 flavonoids derivatives

AUTHOR(S): Liao, Hsien-Ren; Chang, Yeong-Sheng; Lin, Yu-Chun; Yang, Ling-Ling; Chou, Yu-Ma; Wang, Bo-Cheng

CORPORATE SOURCE: Department of Chemistry, Tamkang University, Tamsui, 251, Taiwan

SOURCE: Journal of the Chinese Chemical Society (Taipei, Taiwan) (2006), 53(6), 1251-1261

CODEN: JCCTAC; ISSN: 0009-4536

PUBLISHER: Chinese Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

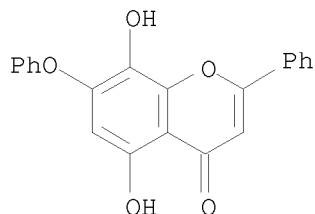
AB The biol. activity relationship of 36 flavonoid compds. was investigated using theor. methods including quant. structure activity relationships (QSAR) and quantum chemical calcn. The results suggested that the 5 and/or 8 positions of the substituents of the hydroxyl group in the A ring and the 3' and 4' positions of substituents of the hydroxyl group in the B ring play an important role in flavonoid biol. activity. This is probably due to the formation of an intramol. hydrogen bond. In addition, the electronic energy, electrostatic energy and bond energy may have an effect on the biol. activity of flavonoids. Also, our anal. has shown that the presence of the 1,4 and 1,2-hydroquinone in the A ring and/or the B ring of flavonoids and the contribution of electronic energy, electrostatic energy

Updated Search

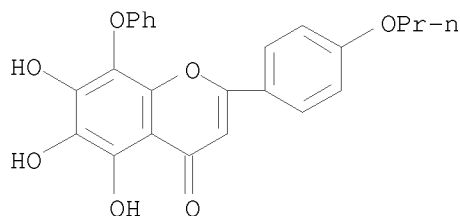
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and bond energy required consideration in the generation of the QSAR model and that the potential compds. will be predicted out of 36 flavonoids.

IT 951248-45-6 951248-48-9
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(QSAR of lipid peroxidn. inhibition by 36 flavonoid derivs.)
RN 951248-45-6 HCAPLUS
CN 4H-1-Benzopyran-4-one, 5,8-dihydroxy-7-phenoxy-2-phenyl- (CA INDEX NAME)



RN 951248-48-9 HCAPLUS
CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-8-phenoxy-2-(4-propoxyphenyl)-
(CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

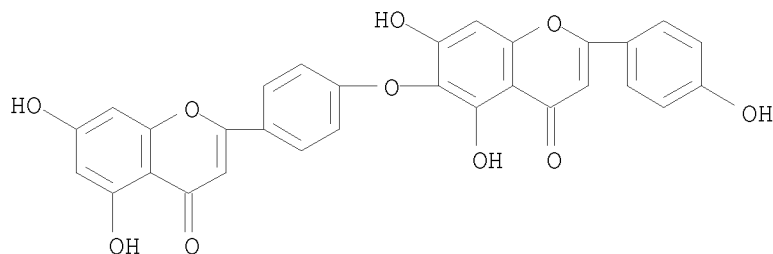
L31 ANSWER 9 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:1190020 HCAPLUS
DOCUMENT NUMBER: 146:114940
TITLE: Natural inhibitors targeting osteoclast-mediated bone resorption
AUTHOR(S): Zeng, Guang-Zhi; Tan, Ning-Hua; Hao, Xiao-Jiang; Mu, Quan-Zhang; Li, Rong-Tao
CORPORATE SOURCE: State Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, 650204, Peop. Rep. China
SOURCE: Bioorganic & Medicinal Chemistry Letters (2006), 16(24), 6178-6180
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Human cathepsin K, matrix metalloproteinase 9, and α V β 3

Updated Search

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integrin are the key regulators in osteoclast-mediated bone resorption. In this paper, we found natural inhibitors 1-10 for them by enzyme inhibition assays. Inhibitors 1-7, 8-9, and 10 are novel inhibitors of human cathepsin K, matrix metalloproteinase 9, and $\alpha\text{V}\beta 3$, resp.

IT 19202-36-9, Hinokiflavone
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(natural inhibitors targeting osteoclast-mediated bone resorption)
RN 19202-36-9 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 10 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:1186406 HCAPLUS

DOCUMENT NUMBER: 146:114227

TITLE: Natural biflavones as novel inhibitors of cathepsin B and K

AUTHOR(S): Zeng, G.-Z.; Pan, X.-L.; Tan, N.-H.; Xiong, J.; Zhang, Y.-M.

CORPORATE SOURCE: State Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, 650204, Peop. Rep. China

SOURCE: European Journal of Medicinal Chemistry (2006), 41(11), 1247-1252

CODEN: EJMCA5; ISSN: 0223-5234

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Cathepsin B and K, two important members in lysosomal proteases, involve in many serious human diseases, such as tumor and osteoporosis. In order to find their novel inhibitors, we performed the inhibition assays of cathepsin B and cathepsin K in vitro, randomly screened compds. from plants, and found six biflavones, named AMF1-5 and HIF, can potently inhibit cathepsin B and cathepsin K, especially AMF4 and HIF with IC₅₀ of 0.62 and 0.58 μM against cathepsin B. They are novel inhibitors for cathepsin B and K. Inhibition and flexible docking studies indicated that these biflavones are reversible inhibitors of cathepsin B, and their binding patterns and interaction modes with cathepsin B made them more specific to cathepsin B endopeptidase.

IT 19202-36-9, Hinokiflavone

Updated Search

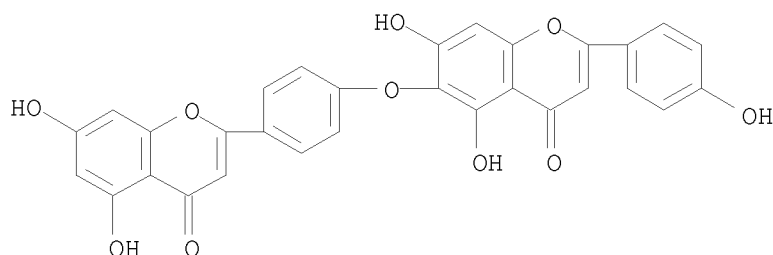
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RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(natural biflavones as novel inhibitors of cathepsin B and K)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 11 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:752385 HCAPLUS

DOCUMENT NUMBER: 145:217766

TITLE: Anticancer drug comprising dihydrohinokiflavone or pharmaceutically acceptable salt thereof as active ingredient

INVENTOR(S): Jung, An Sik; Kim, Ae Yeong; Lee, Ho Jae; Park, Su Jin; Yoon, Sang O.

PATENT ASSIGNEE(S): Korea Advanced Institute of Science and Technology, S. Korea

SOURCE: Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7

DOCUMENT TYPE: Patent

LANGUAGE: Korean

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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KR 2004069833	A	20040806	KR 2003-6381	20030130
PRIORITY APPLN. INFO.:			KR 2003-6381	20030130

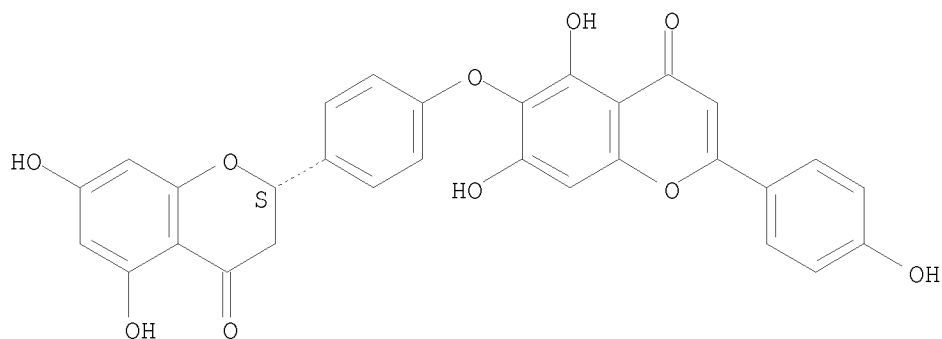
AB An anticancer drug comprising dihydrohinokiflavone or pharmaceutically acceptable salt thereof as an active ingredient is provided, thereby reducing the expression of matrix metalloproteinases (MMPs) related to metastasis and invasion of cancer cells, and activating p53. The anticancer drug comprises dihydrohinokiflavone isolated from leaves of Metasequoia glyptostroboides or pharmaceutically acceptable salt thereof as an active ingredient, wherein the anticancer drug reduces the expression of matrix metalloproteinase (MMPs) related to metastasis and invasion of cancer cells, the anticancer drug activates p53 related to a cancer inhibitor; and the anticancer drug increases sensitivity of cells to active oxygen species, so that it can be used together with conventional anticancer drug generating active oxygen species.

Updated Search

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IT 34292-87-0P
RL: NPO (Natural product occurrence); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(anticancer drug comprising dihydrohinokiflavone or pharmaceutically acceptable salt thereof as active ingredient)
RN 34292-87-0 HCAPLUS
CN 4H-1-Benzopyran-4-one, 2-[4-[[5,7-dihydroxy-2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-6-yl]oxy]phenyl]-2,3-dihydro-5,7-dihydroxy-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



L31 ANSWER 12 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:515356 HCAPLUS
DOCUMENT NUMBER: 145:7883
TITLE: Preparation of naphthalene derivatives as selective estrogen receptor modulators
INVENTOR(S): Hamaoka, Shinichi; Kitazawa, Noritaka; Nara, Kazumasa; Sasaki, Atsushi; Kamada, Atsushi; Okabe, Tadashi
PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan
SOURCE: U.S. Pat. Appl. Publ., 365 pp., Cont.-in-part of Appl. No. PCT/JP03/16808.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060116364	A1	20060601	US 2005-158245	20050622
WO 2004058682	A1	20040715	WO 2003-JP16808	20031225

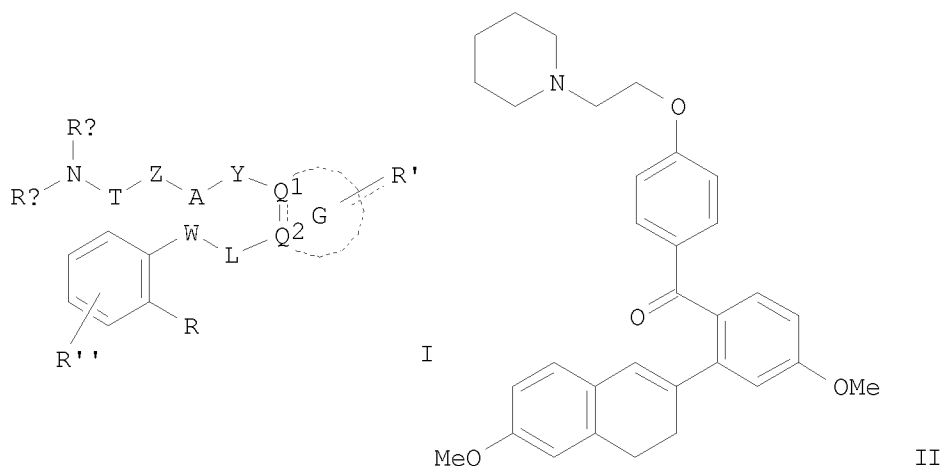
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,

Updated Search

10541677

ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.: JP 2002-378729 A 20021226
WO 2003-JP16808 A2 20031225

OTHER SOURCE(S): MARPAT 145:7883
GI



AB The title compds. I [wherein T = a single bond, (un)substituted alkylene, alkenylene, or alkynylene; A = a single bond, (un)substituted heterocycle, (hetero)arylene, or cycloalkyl; Y = a single bond, O, S, etc.; Z = CH₂O, O, S, etc.; ring G = (hetero)arylene, heterocycle, etc.; Q1 and Q2 = independently N or C; Ra and Rb = independently H, (un)substituted alkyl, alkenyl, alkynyl, etc.; W = a single bond, CO, (un)substituted alkylene, NH, etc.; R' = H, O, S, etc.; R'' = H, OH, halo, etc.; R = H, OH, halo, etc.; L = a single bond, (un)substituted alkylene, alkenylene, or alkynylene] or salts, or hydrates thereof are prepared as selective estrogen receptor modulators. For example, the compound II was prepared in a multi-step synthesis. Representative compds. I showed K_i of 0.2 to 94 nM when tested in in vitro estrogen receptor binding assay.

IT 679410-89-0P 722534-26-1P 722534-27-2P

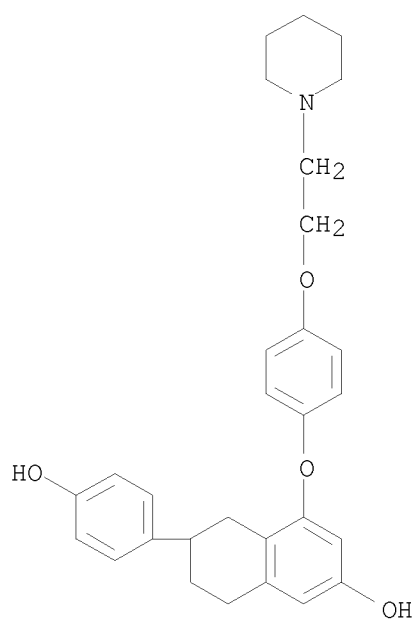
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of naphthalene derivs. as selective estrogen receptor modulators)

RN 679410-89-0 HCAPLUS

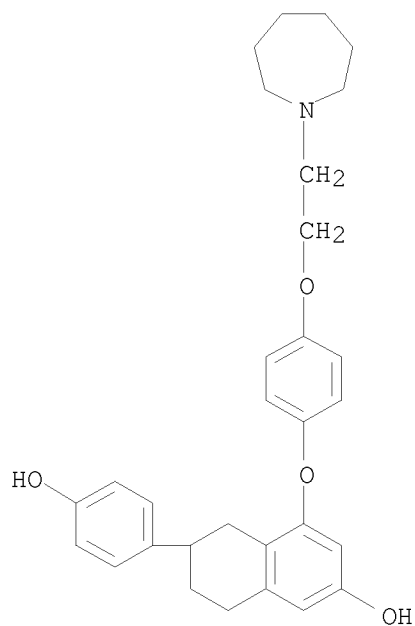
CN 2-Naphthalenol, 5,6,7,8-tetrahydro-6-(4-hydroxyphenyl)-4-[4-[2-(1-piperidinyl)ethoxy]phenoxy]- (CA INDEX NAME)

10541677



RN 722534-26-1 HCAPLUS

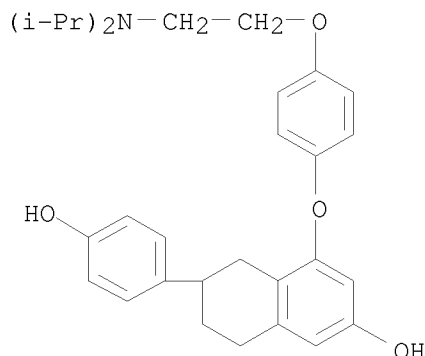
CN 2-Naphthalenol, 4-[4-[2-(hexahydro-1H-azepin-1-yl)ethoxy]phenoxy]-5,6,7,8-tetrahydro-6-(4-hydroxyphenyl)- (CA INDEX NAME)



RN 722534-27-2 HCAPLUS

CN 2-Naphthalenol, 4-[4-[2-[bis(1-methylethyl)amino]ethoxy]phenoxy]-5,6,7,8-tetrahydro-6-(4-hydroxyphenyl)- (CA INDEX NAME)

Updated Search



L31 ANSWER 13 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:389401 HCAPLUS

DOCUMENT NUMBER: 145:305712

TITLE: Comparative antiplasmodial, leishmanicidal and antitrypanosomal activities of several biflavonoids

AUTHOR(S): Weniger, B.; Vonthron-Senecheau, C.; Kaiser, M.; Brun, R.; Anton, R.

CORPORATE SOURCE: Pharmacognosie et Biomolécules Naturelles Actives, UMR no 7081, Faculté de Pharmacie, Université Louis Pasteur Strasbourg, Illkirch, 67401, Fr.

SOURCE: Phytomedicine (2006), 13(3), 176-180
CODEN: PYTOEY; ISSN: 0944-7113

PUBLISHER: Elsevier GmbH

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The antiplasmodial, leishmanicidal and antitrypanosomal activities of eight natural biflavonoids were estimated in vitro on a chloroquine-resistant strain of *Plasmodium falciparum*, axenically grown *Leishmania donovani* amastigotes and *Trypanosoma cruzi* trypomastigotes and *Trypanosoma brucei* rhodesiense bloodstream forms. Lanaroflavone showed the highest antiplasmodial activity ($IC_{50} = 0.48 \mu M$), isoginkgetin was the most active leishmanicidal compound ($IC_{50} = 1.9 \mu M$), whereas ginkgetin ($IC_{50} = 11 \mu M$) and isoginkgetin ($IC_{50} = 13 \mu M$) showed the best antitrypanosomal activity in our assays. The cytotoxicity and the selectivity indexes for the most active compds. were also estimated. Lanaroflavone exhibited a high selectivity index value ($SI = 159$), indicating selective antiplasmodial activity.

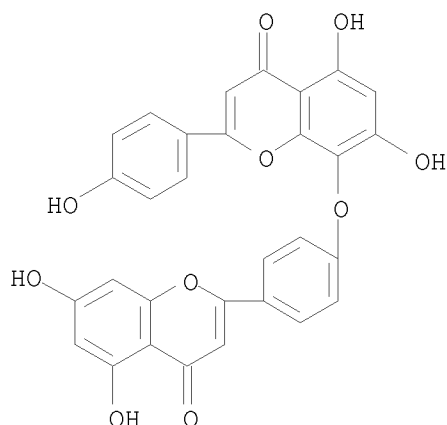
IT 521-50-6P, Lanaroflavone

RL: NPO (Natural product occurrence); PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(bioflavonoid lanaroflavone exhibited strong, moderate antiplasmodial leishmanicidal activity but had no significant effect on antitrypanosomal and cytotoxic activity on rat L-6 myoblast rat cell)

RN 521-50-6 HCAPLUS

CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 14 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:365476 HCAPLUS

DOCUMENT NUMBER: 145:55743

TITLE: Small Molecule Inhibitors of α -Synuclein Filament Assembly

AUTHOR(S): Masuda, Masami; Suzuki, Nobuyuki; Taniguchi, Sayuri; Oikawa, Takayuki; Nonaka, Takashi; Iwatsubo, Takeshi; Hisanaga, Shin-ichi; Goedert, Michel; Hasegawa, Masato

CORPORATE SOURCE: Department of Molecular Neurobiology, Tokyo Institute of Psychiatry, Tokyo, Setagaya-ku, 156-8585, Japan

SOURCE: Biochemistry (2006), 45(19), 6085-6094

CODEN: BICHAW; ISSN: 0006-2960

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB α -Synuclein is the major component of the filamentous inclusions that constitute defining characteristics of Parkinson's disease and other α -synucleinopathies. Here we have tested 79 compds. belonging to 12 different chemical classes for their ability to inhibit the assembly of α -synuclein into filaments in vitro. Several polyphenols, phenothiazines, porphyrins, polyene macrolides, and Congo red and its derivs., BSB and FSB, inhibited α -synuclein filament assembly with IC50 values in the low micromolar range. Many compds. that inhibited α -synuclein assembly were also found to inhibit the formation of A β and tau filaments. Biochem. anal. revealed the formation of soluble oligomeric α -synuclein in the presence of inhibitory compds., suggesting that this may be the mechanism by which filament formation is inhibited. Unlike α -synuclein filaments and protofibrils, these soluble oligomeric species did not reduce the viability of SH-SY5Y cells. These findings suggest that the soluble oligomers formed in the presence of inhibitory compds. may not be toxic to nerve cells and that these compds. may therefore have therapeutic potential for α -synucleinopathies and other brain amyloidoses.

IT 19202-36-9, Hinokiflavone

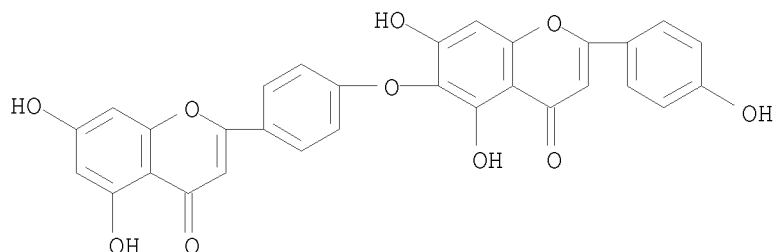
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU

10541677

(Therapeutic use); BIOL (Biological study); USES (Uses)
(small mol. inhibitors of α -synuclein filament assembly)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 77 THERE ARE 77 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 15 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:13734 HCAPLUS

DOCUMENT NUMBER: 144:101058

TITLE: Composition for preventing or treating acute or chronic degenerative brain diseases including flavonoid derivatives

INVENTOR(S): Han, Byung-Hee; Kang, Sam-Sik; Son, Kun-Ho

PATENT ASSIGNEE(S): Seoul National University Industry Foundation, S. Korea

SOURCE: PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006001665	A1	20060105	WO 2005-KR1986	20050624
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
KR 2006000048	A	20060106	KR 2004-48899	20040628
PRIORITY APPLN. INFO.:			KR 2004-48899	A 20040628
AB	Provided is a composition for preventing or treating an acute or chronic degenerative brain disease, the composition including as an effective			

Updated Search

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ingredient a flavonoid derivative selected from the group consisting of 4',7-dihydroxyflavone; 3',4',7-trihydroxyflavone; 3,3'-di-O-methylquercetin; kaempferide; galangin; morin; amentoflavone; hinokiflavone; ochnaflavone; ochnaflavone 4'-O-Me ether; kaempferol 3-O-(6"-coumaroylglucosyl)(1→2)rhamnoside; quercetin 3-O-(6"-coumaroylglucosyl)(1→2)rhamnoside; kaempferol 3-O-glucosyl(1→2)rhamnoside; kaempferol 3-O-2",6"-dirhamnosylglucoside; quercetin 3-O-2",6"-dirhamnosylglucoside; and kaempferol 3-O-rutinoside, and a pharmaceutically acceptable carrier.

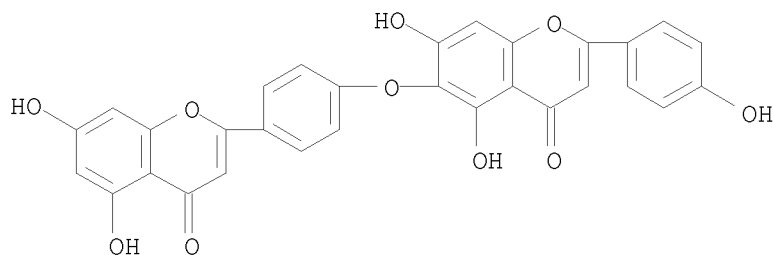
IT 19202-36-9, Hinokiflavone

RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)

(composition for preventing or treating acute or chronic degenerative brain diseases including flavonoid derivs.)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 16 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:841363 HCAPLUS

DOCUMENT NUMBER: 144:11250

TITLE: Study on flavonoids in *Selaginella tamariscina* (Beanuv.) Spring

AUTHOR(S): Zheng, Xiaoke; Shi, Shepo; Bi, Yuefeng; Feng, Weisheng

CORPORATE SOURCE: Henan College of Traditional Chinese Medicine, Zhengzhou, Henan Province, 450008, Peop. Rep. China

SOURCE: Zhongcaoyao (2004), 35(7), 742-743

CODEN: CTYAD8; ISSN: 0253-2670

PUBLISHER: Zhongcaoyao Zazhi Bianjibu

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB Compds. were isolated by various chromatogs. with silica gel. Their structures were elucidated by spectral anal. and chemical evidence. Five compds. were obtained and identified as: neocryptomerin (I), genkwanin (II), apigenin-6,8-di-C- β -glucopyranoside (III), amentoflavone (IV), hinokiflavone (V). Compds. I-III are obtained from this plant for the first time.

IT 19202-36-9, Hinokiflavone 20931-36-6, Neocryptomerin

RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); THU (Therapeutic use); BIOL (Biological study); OCCU

Updated Search

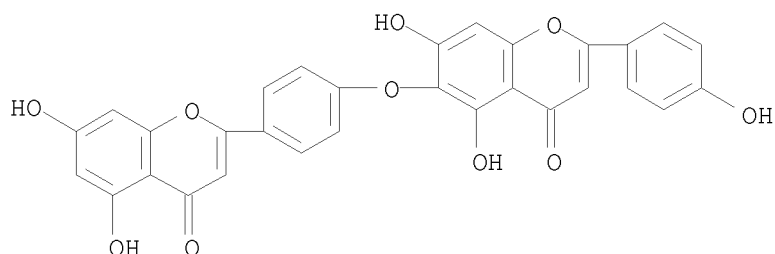
10541677

(Occurrence); USES (Uses)

(study on flavonoids in *Selaginella tamariscina* (Beanuv.) Spring)

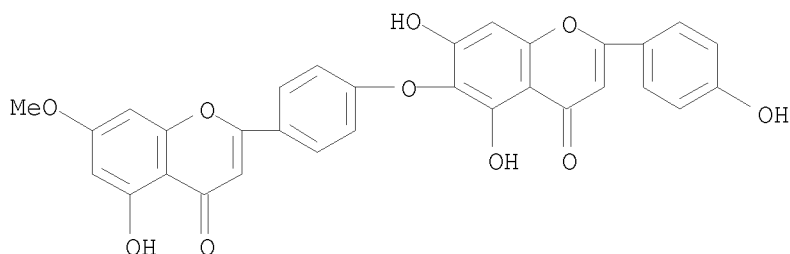
RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



RN 20931-36-6 HCAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-6-[4-(5-hydroxy-7-methoxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2-(4-hydroxyphenyl)- (CA INDEX NAME)



L31 ANSWER 17 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:589380 HCAPLUS

DOCUMENT NUMBER: 143:146461

TITLE: Neuroprotective effects of naturally occurring biflavonoids

AUTHOR(S): Kang, Sam Sik; Lee, Ji Yeon; Choi, Yoo Keum; Song, Sun Sook; Kim, Ju Sun; Jeon, Su Jin; Han, Yong Nam; Son, Kun Ho; Han, Byung Hee

CORPORATE SOURCE: Department of Manufacturing Pharmacy, Seoul National University College of Pharmacy, Seoul, 110-460, S. Korea

SOURCE: Bioorganic & Medicinal Chemistry Letters (2005), 15(15), 3588-3591

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB We examined neuroprotective effects of naturally occurring biflavonoids on oxidative stress-induced and amyloid β peptide-induced cell death in neuronal cells. Among the nine biflavonoids tested, amentoflavone, ginkgetin, and isoginkgetin exhibited strong neuroprotection against

Updated Search

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cytotoxic insults induced by oxidative stress and amyloid β , suggesting their therapeutic potential against neurodegenerative diseases, including ischemic stroke and Alzheimer's disease.

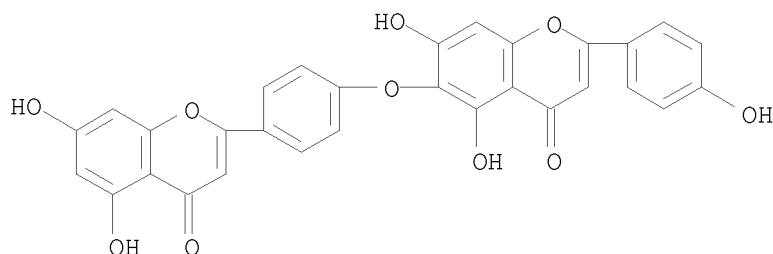
IT 19202-36-9, Hinokiflavone 20931-58-2, Isocryptomerin

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(neuroprotective effects of naturally occurring biflavonoids)

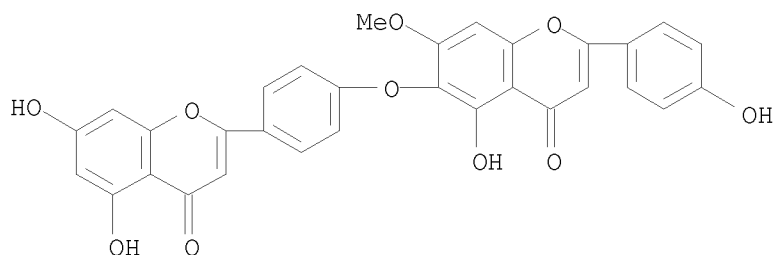
RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



RN 20931-58-2 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 18 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:1027997 HCAPLUS

DOCUMENT NUMBER: 142:273383

TITLE: A bioactive biflavonoid from *Camptosperma panamense*

AUTHOR(S): Weniger, B.; Vonthron-Senecheau, C.; Arango, G. J.;

Kaiser, M.; Brun, R.; Anton, R.

CORPORATE SOURCE: Laboratoire de Pharmacognosie, Universite Louis

Pasteur, Strasbourg, 67401, Fr.

SOURCE: Fitoterapia (2004), 75(7-8), 764-767

CODEN: FTRPAE; ISSN: 0367-326X

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Lanaroflavone, a biflavonoid isolated from the methanol extract of the aerial

Updated Search

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part of *Campnosperma panamensis* by bioguided fractionation, has been assessed for in vitro antiprotozoal activity. Lanaroflavone showed both antimalarial and leishmanicidal activities, but was inactive against the Chagas disease vector, *Trypanosoma cruzi*.

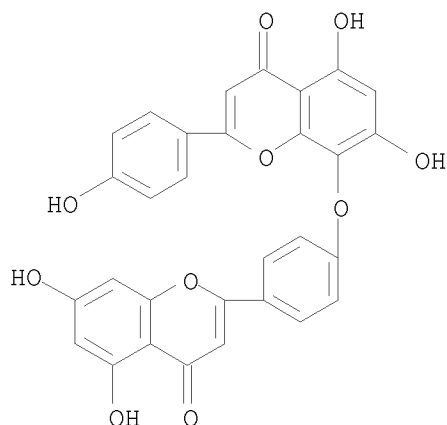
IT 521-50-6P, Lanaroflavone

RL: NPO (Natural product occurrence); PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(lanaroflavone exhibited bioactivity against *Plasmodium falciparum* K1 chloroquine-resistant strain and moderate activity against *Leishmania donovani* amastigote but no activity against *Trypanosoma cruzi* trypomastigotes)

RN 521-50-6 HCAPLUS

CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 19 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:565187 HCAPLUS

DOCUMENT NUMBER: 141:123486

TITLE: Preparation of naphthalene derivatives as selective estrogen receptor modulators

INVENTOR(S): Hamaoka, Shinichi; Kitazawa, Noritaka; Nara, Kazumasa; Sasaki, Atsushi; Kamada, Atsushi; Okabe, Tadashi

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan

SOURCE: PCT Int. Appl., 982 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

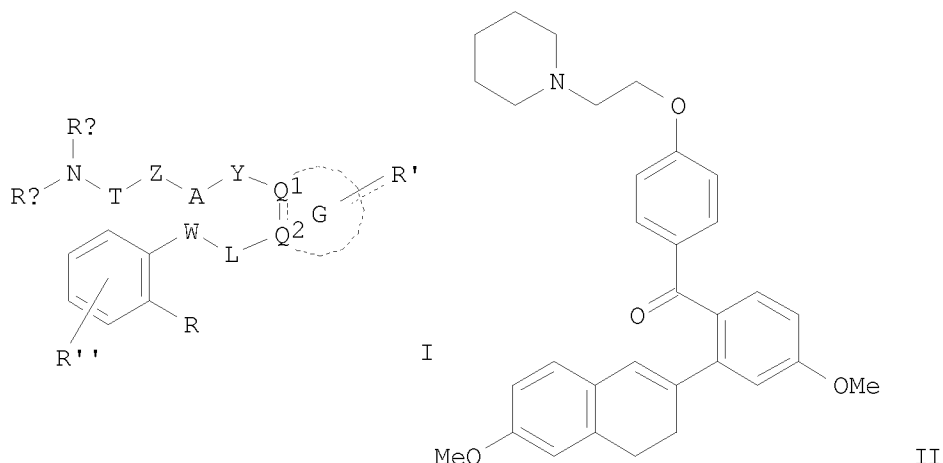
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004058682	A1	20040715	WO 2003-JP16808	20031225
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				

Updated Search

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CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
CA 2512000 A1 20040715 CA 2003-2512000 20031225
AU 2003292625 A1 20040722 AU 2003-292625 20031225
AU 2003292625 B2 20080724
EP 1577288 A1 20050921 EP 2003-782904 20031225
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
US 20060116364 A1 20060601 US 2005-158245 20050622
PRIORITY APPLN. INFO.: JP 2002-378729 A 20021226
WO 2003-JP16808 W 20031225
OTHER SOURCE(S): MARPAT 141:123486
GI



AB The title compds. I [wherein T = a single bond, (un)substituted alkylene, alkenylene, or alkynylene; A = a single bond, (un)substituted heterocycle, (hetero)arylene, or cyclohydrocarbyl; Y = a single bond, O, S, etc.; Z = CH₂O, O, S, etc.; ring G = (hetero)arylene, heterocycle, etc.; Q1 and Q2 = independently N or C; Ra and Rb = independently H, (un)substituted alkyl, alkenyl, alkynyl, etc.; W = a single bond, CO, (un)substituted alkylene, NH, etc.; R' = H, O, S, etc.; R'' = H, OH, halo, etc.; R = H, OH, halo, etc.; L = a single bond, (un)substituted alkylene, alkenylene, or alkynylene] or salts, or hydrates thereof are prepared as selective estrogen receptor modulators. For example, the compound II was prepared in a multi-step synthesis. I showed affinity towards estrogen receptor with K_i of 0.2 to 94 nM in cow.
IT 679410-89-0P 722534-26-1P 722534-27-2P

Updated Search

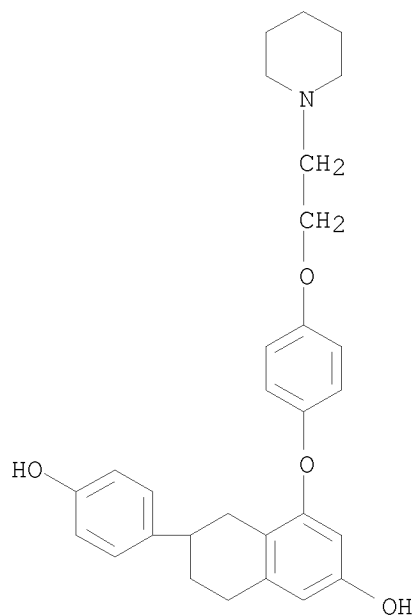
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of naphthalene derivs. as selective estrogen receptor modulators)

RN 679410-89-0 HCAPLUS

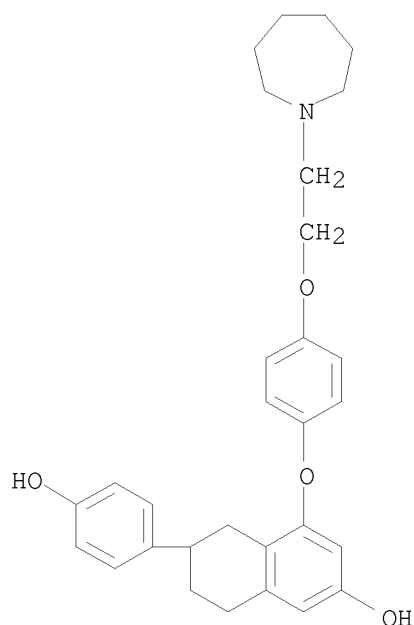
CN 2-Naphthalenol, 5,6,7,8-tetrahydro-6-(4-hydroxyphenyl)-4-[4-[2-(1-piperidinyl)ethoxy]phenoxy]- (CA INDEX NAME)



RN 722534-26-1 HCAPLUS

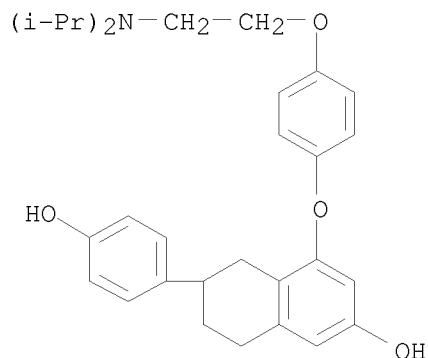
CN 2-Naphthalenol, 4-[4-[2-(hexahydro-1H-azepin-1-yl)ethoxy]phenoxy]-5,6,7,8-tetrahydro-6-(4-hydroxyphenyl)- (CA INDEX NAME)

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RN 722534-27-2 HCAPLUS

CN 2-Naphthalenol, 4-[4-[2-[bis(1-methylethyl)amino]ethoxy]phenoxy]-5,6,7,8-tetrahydro-6-(4-hydroxyphenyl)- (CA INDEX NAME)



L31 ANSWER 20 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:392089 HCAPLUS

DOCUMENT NUMBER: 140:405940

TITLE: Prevention of synthetic color fading in beverages using botanically derived color stabilizers such as phenylpropenoic carbonyl compounds.

INVENTOR(S): Roy, Glenn; Berardi, Robin; Chan, Wendy; Lee, Thomas
PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 14 pp.

CODEN: USXXCO

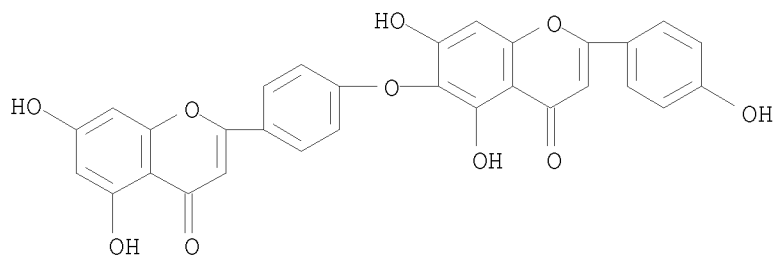
DOCUMENT TYPE: Patent

Updated Search

10541677

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 20040091589	A1	20040513	US 2003-629759	20030730
PRIORITY APPLN. INFO.:				US 2002-399689P	P 20020730
AB	Fading of synthetically colored beverages is prevented using botanically derived color stabilizers which are C6-C3 phenylpropenoic carbonyl compds. which contain both unsatn. and oxidation at a carbon atom.				
IT	19202-36-9, Hinokiflavone RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses) (prevention of synthetic color fading in beverages using botanically derived color stabilizers such as phenylpropenoic carbonyl compds.)				
RN	19202-36-9 HCAPLUS				
CN	4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)				



L31 ANSWER 21 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:344802 HCAPLUS

DOCUMENT NUMBER: 141:33331

TITLE: A semi-empirical study of biflavonoid compounds with biological activity against tuberculosis

AUTHOR(S): Dias, J. C.; Rebelo, M. M.; Alves, C. N.

CORPORATE SOURCE: Centro de Ciencias Exatas e Naturais, Departamento de Quimica, Universidade Federal do Para, Belem, PA, 66075-110, Brazil

SOURCE: THEOCHEM (2004), 676(1-3), 83-87

CODEN: THEODJ; ISSN: 0166-1280

PUBLISHER: Elsevier Science B.V.

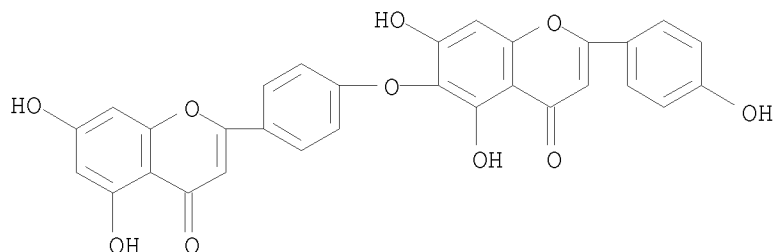
DOCUMENT TYPE: Journal

LANGUAGE: English

AB Biflavonoids are a series of naturally occurring with a variety of biol. activities. In this work the PM3 semi-empirical method was employed to calculate a set of mol. properties (variables or descriptors) of 28 biflavonoid compds. with inhibitory activity against Mycobacterium tuberculosis H37Rv (Mtb). We have observed a correlation between the heat of formation (Hf), log of the octanol/water partition coefficient (log P) or hydration energy (HE) and the antituberculosis activity. The active compds. present larger values for log P, Hf, and HE. These results suggest that it is possible, in principle, to select the most (or the least) promising mols. from a series of untested biflavonoid mols., simply

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by comparing their Hf, log P, or HE.
IT 19202-36-9
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(semi-empirical study of biflavonoids with activity against tuberculosis)
RN 19202-36-9 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 22 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:344775 HCAPLUS

DOCUMENT NUMBER: 141:33330

TITLE: A study on the anti-HIV activity of biflavonoid compounds by using quantum chemical and chemometric methods

AUTHOR(S): Molfetta, F. A.; Honorio, K. M.; Alves, C. N.; da Silva, A. B. F.

CORPORATE SOURCE: Instituto de Quimica de Sao Carlos, Departamento de Quimica e Fisica Molecular, Universidade de Sao Paulo, Sao Carlos, 13560-970, Brazil

SOURCE: THEOCHEM (2004), 674(1-3), 191-197
CODEN: THEODJ; ISSN: 0166-1280

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

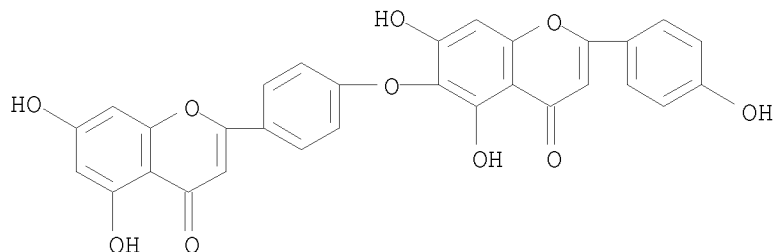
AB A set of 14 biflavonoid compds. with anti-human immunodeficiency virus (anti-HIV) activity is studied by using quantum chemical and chemometric methodologies with the aim to calculate some mol. properties and correlate them with the biol. activity. The AM1 semi-empirical method was used to calculate the mol. properties of the 14 biflavonoid compds. and the chemometric methods stepwise discriminant anal. (SDA), K-nearest neighbors (KNN) and soft independent modeling of class analogy (SIMCA) were used to obtain the relation between the calculated properties and the biol. activity under study. Afterwards we used the results obtained with SDA, KNN and SIMCA to predict the anti-HIV activity of a new set of biflavonoid mols.

IT 19202-36-9
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(anti-HIV activity of biflavonoid compds. by using quantum chemical and chemometric methods)

Updated Search

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RN 19202-36-9 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 23 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:33982 HCAPLUS
DOCUMENT NUMBER: 140:105231
TITLE: Biflavonoids, flavonoids, chalcones and chalcone-like compounds and use against mycobacterium infections
INVENTOR(S): Lin, Yuh-meei
PATENT ASSIGNEE(S): Advanced Life Sciences, Inc., USA
SOURCE: U.S., 19 pp., Cont.-in-part of U.S. Provisional Ser. No. 155,519.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6677350	B1	20040113	US 2000-667131	20000921
WO 2001021164	A2	20010329	WO 2000-US26196	20000922
WO 2001021164	A3	20020110		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1217995	A2	20020703	EP 2000-963753	20000922
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
US 20040147597	A1	20040729	US 2004-756582	20040112
PRIORITY APPLN. INFO.:			US 1999-155519P	P 19990922
			US 2000-667131	A2 20000921
			WO 2000-US26196	W 20000922
OTHER SOURCE(S):	MARPAT 140:105231			

Updated Search

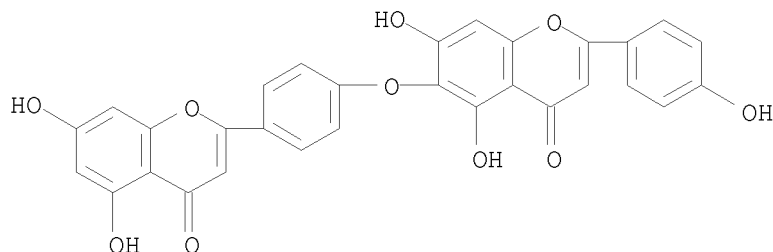
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AB The present invention relates to compds., compns. and methods for the prevention or treatment of mycobacterium infections. The compds. are naturally occurring and synthetic biflavonoids, flavonoids, chalcones and chalcone like compds. The anti-mycobacterium compds. have the structure: $R_1C(O)CH=CHR_2$ (R_1 = 4-fluorophenyl-, 3-hydroxyphenyl-, pyridin-3-yl-, etc.; R_2 = pyridin-3-yl-, phenanthren-9-yl-, phenanthren-9-yl-, phenyl-, 2-aminopyridino-3-yl, 2-aminopyridino-3-yl-, etc.). The compds. were screened for anti-mycobacterium activity. Of the compds. showing anti-mycobacterium activity, eight were identified as particularly potent, exhibiting greater than 90% inhibition of the growth of Mycobacterium tuberculosis (Mtb) at a concentration of 12.5 $\mu\text{g/mL}$. The actual min. inhibitory concns. (MIC), defined as the lowest concentration inhibiting 99% of the inoculum, for the preferred compds. ranged from 6.8 to 48.3 μM .

IT 19202-36-9
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(anti-tuberculosis activity of; biflavonoids, flavonoids, chalcones and chalcone-like compds. and use against mycobacterium infections)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 134 THERE ARE 134 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 24 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:425422 HCAPLUS
DOCUMENT NUMBER: 137:692
TITLE: Biflavanoids and derivatives thereof as antiviral agents
INVENTOR(S): Lin, Yuh-Meei; Zembower, David E.; Flavin, Michael T.; Schure, Ralph; Zhao, Geng-Xian
PATENT ASSIGNEE(S): Advanced Life Sciences, Inc., USA
SOURCE: U.S., 37 pp., Cont.-in-part of U. S. Ser. No. 842,625, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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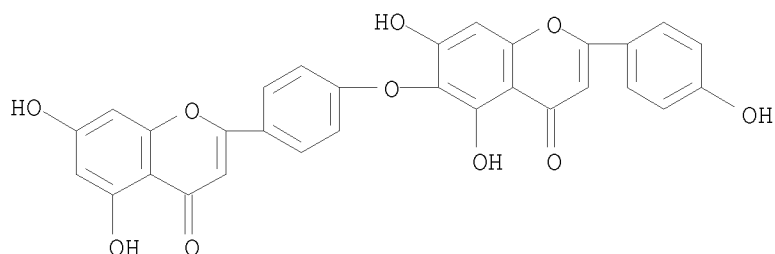
Updated Search

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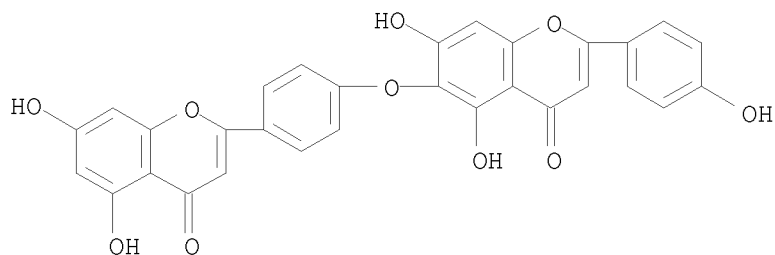
US 6399654	B1	20020604	US 1998-60839	19980415
US 5773462	A	19980630	US 1996-668284	19960621
EP 1245230	A2	20021002	EP 2002-10287	19960621
EP 1245230	A3	20031126		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
WO 9846238	A1	19981022	WO 1998-US7649	19980415
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9871243	A	19981111	AU 1998-71243	19980415
US 20020068757	A1	20020606	US 2001-761909	20010117
PRIORITY APPLN. INFO.:				
			US 1995-465P	P 19950623
			US 1996-668284	A2 19960621
			US 1997-842625	B2 19970415
			EP 1996-921740	A3 19960621
			US 1998-60839	A 19980415
			WO 1998-US7649	W 19980415
AB	Substantially purified antiviral biflavanoids robustaflavone, hinokiflavone, amentoflavone, agathisflavone, volkensiflavone, morelloflavone, rhusflavanone, succedaneaflavanone, GB-1a, and GB-2a are provided. Antiviral biflavanoid derivs. and salt forms thereof, e.g., robustaflavone tetrasulfate potassium salt, and methods for preparing them, are also disclosed. Pharmaceutical compns. which include the antiviral biflavanoids, derivs. or salts thereof, are also provided alone or in combination with at least one antiviral agent, e.g. 3TC. Also disclosed is an improved method for obtaining substantially pure robustaflavone from plant material. The biflavanoid compds., derivs. or salts thereof of the invention may be used in a method for treating and/or preventing viral infections caused by viral agents, e.g. influenza (e.g. influenza A and B), hepatitis (e.g. hepatitis B), human immunodeficiency virus (e.g. HIV-1), Herpes viruses (HSV-1 and HSV-2), Varicella Zoster virus (VZV), and measles. For instance, semi-synthetic hexa-O-acetate and hexa-O-Me ether derivs. of robustaflavone have been found to be effective in a method for treating or preventing hepatitis B viral infections. Compns. which include these robustaflavone derivs. along with methods for preparing and using the same are also provided. These compns. may be used alone or in combination with at least one antiviral agent such as 3TC.			
IT	19202-36-9P, Hinokiflavone RL: NPO (Natural product occurrence); PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses) (biflavanoids and derivs. as antiviral agents)			
RN	19202-36-9 HCAPLUS			
CN	4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)			

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IT 19202-36-9D, Hinokiflavone, derivs.
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(biflavanoids and derivs. as antiviral agents)
RN 19202-36-9 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 99 THERE ARE 99 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 25 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:418315 HCAPLUS
DOCUMENT NUMBER: 135:205164
TITLE: Effects of constituents from the bark of Magnolia obovata on nitric oxide production in lipopolysaccharide-activated macrophages
AUTHOR(S): Matsuda, Hisashi; Kageura, Tadashi; Oda, Mamiko; Morikawa, Toshio; Sakamoto, Yasuko; Yoshikawa, Masayuki
CORPORATE SOURCE: Kyoto Pharmaceutical University, Kyoto, 607-8412, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (2001), 49(6), 716-720
CODEN: CPBTAL; ISSN: 0009-2363
PUBLISHER: Pharmaceutical Society of Japan
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The methanolic extract from a Japanese herbal medicine, the bark of Magnolia obovata, was found to inhibit nitric oxide (NO) production in lipopolysaccharide (LPS)-activated macrophages. By bioassay-guided separation, three neolignans (magnolol, honokiol, obovatol) and three sesquiterpenes (α -eudesmol, β -eudesmol, γ -eudesmol) were obtained as

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active constituents. A trineolignan (magnolianin), a phenylpropanoid glycoside (syringin), lignan glycosides (liriodendrin, (+)-syringaresinol 4'-O- β -D-glucopyranoside) and a sesquiterpene (caryophyllene oxide) did not show any activity. On the other hand, sesquiterpene-neolignans (eudesmagnolol, clovanemagnolol, caryolanemagnolol, eudeshonokiol A, eudesobovatol A) showed the strong cytotoxic effects. Active constituents (magnolol, honokiol, obovatol) showed weak inhibition for inducible NO synthase (iNOS) enzyme activity, but potent inhibition of iNOS induction and activation of nuclear factor- κ B.

IT 147663-91-0P, Magnolianin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

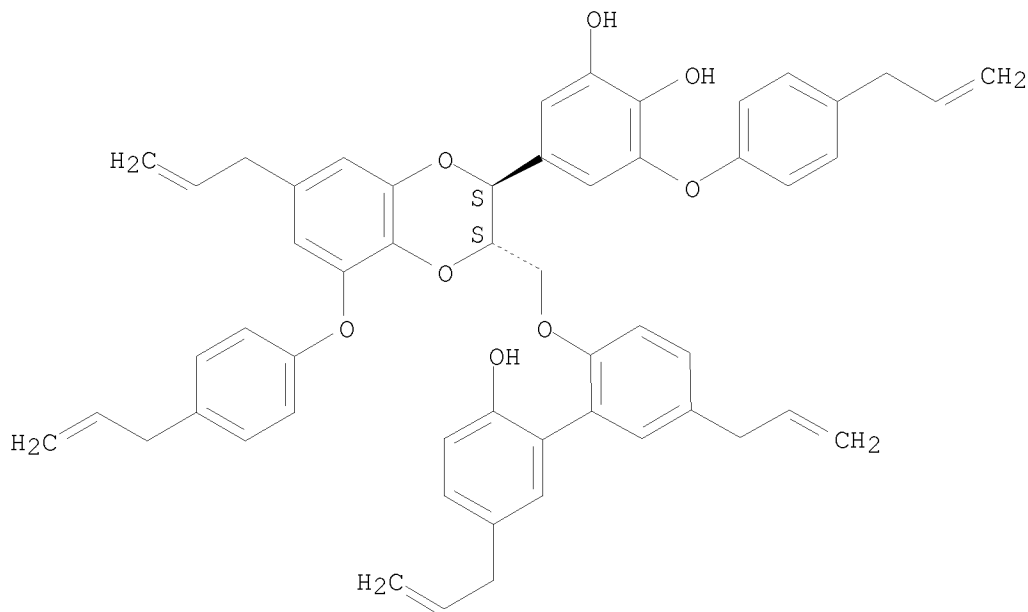
(effects of constituents from bark of *Magnolia obovata* on nitric oxide production in lipopolysaccharide-activated macrophages)

RN 147663-91-0 HCAPLUS

CN 1,2-Benzenediol, 5-[(2R,3R)-2,3-dihydro-3-[[2'-hydroxy-5,5'-di-2-propen-1-yl[1,1'-biphenyl]-2-yl]oxy]methyl]-7-(2-propen-1-yl)-5-[4-(2-propen-1-yl)phenoxy]-1,4-benzodioxin-2-yl]-3-[4-(2-propen-1-yl)phenoxy]-, rel- (CA INDEX NAME)

Relative stereochemistry.

Currently available stereo shown.



REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 26 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:228698 HCAPLUS

DOCUMENT NUMBER: 134:261227

TITLE: Anti-mycobacterium flavonoid and chalcone compound

Updated Search

10541677

INVENTOR(S): Lin, Yuh-Meej
PATENT ASSIGNEE(S): Advanced Life Sciences, Inc., USA
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001021164	A2	20010329	WO 2000-US26196	20000922
WO 2001021164	A3	20020110		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6677350	B1	20040113	US 2000-667131	20000921
EP 1217995	A2	20020703	EP 2000-963753	20000922
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
PRIORITY APPLN. INFO.:			US 1999-155519P	P 19990922
			US 2000-667131	A2 20000921
			WO 2000-US26196	W 20000922

OTHER SOURCE(S): MARPAT 134:261227

AB The invention provides compds., compns. and methods for the prevention or treatment of mycobacterium infections. The compds. are naturally occurring and synthetic biflavonoids, flavonoids, chalcones and chalcone-like compds. The compds. were screened for anti-mycobacterial activity. Of the compds. showing anti-mycobacterial activity, eight were identified as particularly potent, exhibiting greater than 90% inhibition of the growth of Mycobacterium tuberculosis at a concentration of 12.5 µg/mL. The actual min. inhibitory concns., defined as the lowest concentration inhibiting 99% of the inoculum, for the preferred compds. ranged from 6.8 to 48.3 µM.

IT 19202-36-9, Hinokiflavone

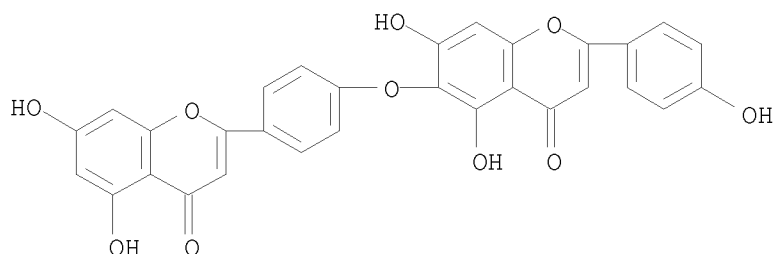
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(flavonoid and chalcone compound anti-mycobacterium compns., preparation and use)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)

10541677



L31 ANSWER 27 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:553541 HCAPLUS

DOCUMENT NUMBER: 133:163952

TITLE: Preparation of N2-phenylamidines as fungicides

INVENTOR(S): Charles, Mark David; Franke, Wilfried; Green, David
Eric; Hough, Thomas Lawley; Mitchell, Dale Robert;
Simpson, Donald James; Atherall, John Frederick

PATENT ASSIGNEE(S): Hoechst Schering Agrevo G.m.b.H., Germany

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

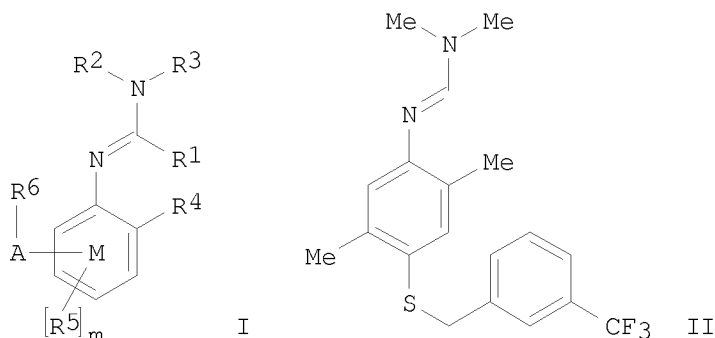
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000046184	A1	20000810	WO 2000-GB345	20000204
W: AU, BR, CA, CN, CZ, HU, IL, IN, JP, KR, MX, RU, TR, UA, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2360943	A1	20000810	CA 2000-2360943	20000204
CA 2360943	C	20060418		
EP 1150944	A1	20011107	EP 2000-901791	20000204
EP 1150944	B1	20030820		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
TR 200102237	T2	20011221	TR 2001-2237	20000204
BR 2000009314	A	20020213	BR 2000-9314	20000204
HU 2001005098	A2	20020429	HU 2001-5098	20000204
HU 2001005098	A3	20020528		
JP 2002536354	T	20021029	JP 2000-597256	20000204
AT 247629	T	20030915	AT 2000-901791	20000204
AU 768156	B2	20031204	AU 2000-23088	20000204
PT 1150944	T	20031231	PT 2000-901791	20000204
ES 2200816	T3	20040316	ES 2000-901791	20000204
RU 2234504	C2	20040820	RU 2001-124664	20000204
US 6893650	B1	20050517	US 2001-890775	20000204
ZA 2001005845	A	20021016	ZA 2001-5845	20010716
MX 2001PA07923	A	20021011	MX 2001-PA7923	20010803
IN 2001DN00764	A	20070112	IN 2001-DN764	20010827
HK 1043358	A1	20050506	HK 2002-105179	20020712
PRIORITY APPLN. INFO.:			GB 1999-2592	A 19990206
			WO 2000-GB345	W 20000204

Updated Search

10541677

OTHER SOURCE(S): MARPAT 133:163952
GI



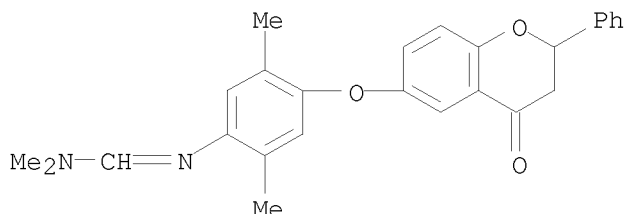
AB The title compds. [I; R1 = alkyl, alkenyl, alkynyl, etc.; R2, R3 = R1, CN, acyl, etc.; R2 and R3, or R2 and R1, together with their interconnecting atoms may form (un)substituted ring; R4 = alkyl, alkenyl, alkynyl, etc.; m = 0-3; when present R5 = R4; R6 = (un)substituted carbo- or heterocyclyl; A = a direct bond, O, C.tplbond.C, etc.; AR6 and R5 together with benzene ring M form an (un)substituted fused ring system], useful as fungicides, were prepared E.g., a 3-step preparation of the formamidine II which showed moderate to total control against *Erysiphe graminis* f. sp. *Tritici* at 500 ppm (w/v) or less, was given.

IT 287940-12-9P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N2-phenylamidines as fungicides)

RN 287940-12-9 HCAPLUS

CN Methanimidamide, N'-[4-[(3,4-dihydro-4-oxo-2-phenyl-2H-1-benzopyran-6-yl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 28 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:445135 HCAPLUS

DOCUMENT NUMBER: 133:329268

TITLE: Compounds from *Biota orientalis* leaves inhibit

Updated Search

10541677

expression of adhesion molecules induced by
TNF- α on inflammatory cells

AUTHOR(S): Lee, Hyeong-Kyu; Ahn, Kyung-Seop; Park, Si Hyung; Lee, Im Seon; Kim, Jung Hee

CORPORATE SOURCE: Immunomodulator Research Laboratory, Korea Research Institute of Bioscience and Biotechnology, Taejon, 305-600, S. Korea

SOURCE: Recent Advances in Natural Products Research, Proceedings of the International Symposium on Recent Advances in Natural Products Research, 3rd, Seoul, Republic of Korea, Nov. 19, 1999 (1999), 54-62.
Editor(s): Shin, Kuk Hyun; Kang, Sam Sik; Kim, Yeong Shik. Seoul National University, Natural Products Research Institute: Seoul, S. Korea.
CODEN: 69ACLK

DOCUMENT TYPE: Conference

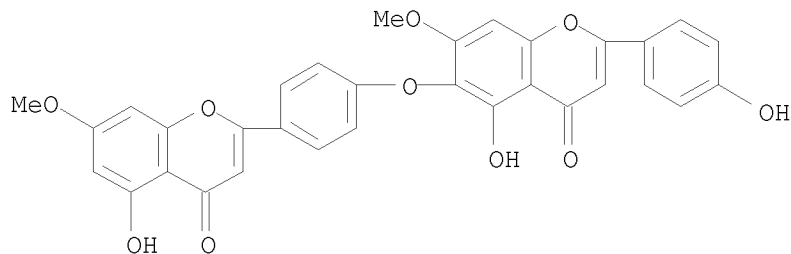
LANGUAGE: English

AB A study was conducted to isolate active compds. from the leaves of *Biota orientalis* using the bioactivity-guided separation method. Thirteen compds. (6 flavonoids, 6 diterpenoids and a coumarin) were isolated from the leaves of *Biota orientalis*. Putraflavone, acacetin and 6-methoxy- λ -8(17),13-dien-15,19-dioic acid butenolide showed good activity in the inhibition assay of intercellular cell adhesion mol. 1 (ICAM-1) and vascular cell adhesion mol. 1 (VCAM-1) expression induced by tumor necrosis factor- α on THP-1 cells. In the inhibition assay of cell-cell adhesion, acacetin showed the strongest activity among isolated compds., and demethylpinusolide and putraflavone followed. These results suggest that *biota* leaves are useful for the treatment of acute and chronic inflammation including chronic bronchitis.

IT 20931-35-5 20931-58-2, Isocryptomerin
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(compds. from *Biota orientalis* leaves inhibit expression of adhesion mols. induced by TNF- α on inflammatory cells in relation to inhibition of cell-cell adhesion and inflammation inhibition)

RN 20931-35-5 HCAPLUS

CN 4H-1-Benzopyran-4-one, 5-hydroxy-6-[4-(5-hydroxy-7-methoxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)

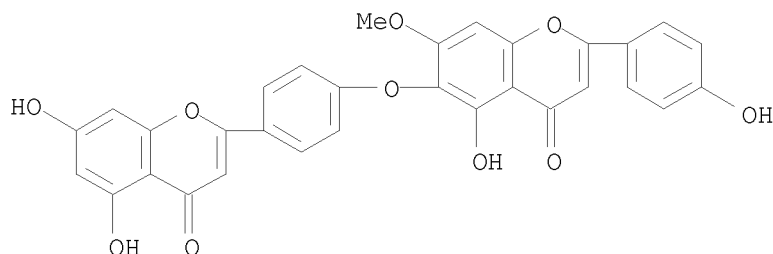


RN 20931-58-2 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)

Updated Search

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REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 29 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:706097 HCAPLUS

DOCUMENT NUMBER: 129:310877

ORIGINAL REFERENCE NO.: 129:63297a, 63300a

TITLE: Biflavanoids and their derivatives as antiviral agents, alone or in combination with at least one known antiviral agent

INVENTOR(S): Zembower, David E.; Lin, Yuh-Meei; Flavin, Michael T.; Schure, Ralph; Zhao, Geng-Xian

PATENT ASSIGNEE(S): Medichem Research, Inc., USA

SOURCE: PCT Int. Appl., 102 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9846238	A1	19981022	WO 1998-US7649	19980415
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9871243	A	19981111	AU 1998-71243	19980415
US 6399654	B1	20020604	US 1998-60839	19980415
PRIORITY APPLN. INFO.:			US 1997-842625	A2 19970415
			US 1998-60839	A 19980415
			US 1995-465P	P 19950623
			US 1996-668284	A2 19960621
			WO 1998-US7649	W 19980415

AB Substantially purified antiviral biflavanoids robustaflavone, hinokflavone, amentoflavone, agathisflavone, volkensiflavone, morelloflavone, rhusflavanone, succedaneaflavanone, GB-1a, and GB-2a are provided. Antiviral biflavanoid derivs. and salt forms thereof, e.g., robustaflavone tetrasulfate potassium salt, and methods for preparing the same are also disclosed. Pharmaceutical compns. which include the

Updated Search

antiviral biflavanoids, derivs. of salts thereof are also provided alone or in combination with at least one antiviral agent such as 3TC. Also disclosed is an improved method for obtaining substantially pure robustaflavone from plant material. The biflavanoid compds., derivs. or salts thereof of the invention may be used in a method for treating and/or preventing viral infections caused by viral agents such as influenza, e.g., influenza A and B; hepatitis, e.g., hepatitis B; human immunodeficiency virus, e.g., HIV-1; Herpes viruses (HSV-1 and HSV-2); Varicella Zoster virus (VZV); and measles. For instance, semi-synthetic hexa-O-acetate and hexa-O-Me ether derivs. of robustaflavone have been found to be effective in a method for treating or preventing hepatitis B viral infections. Compns. which include these robustaflavone derivs. along with methods for preparing and using the same are also provided. These compns. may be used alone or in combination with at least one antiviral agent such as 3TC.

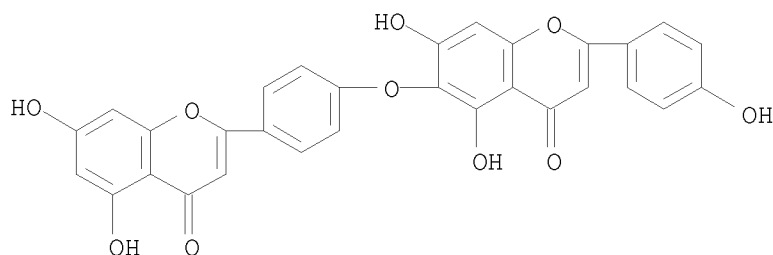
IT 19202-36-9, Hinokiflavone 19202-36-9D, Hinokiflavone, derivs.

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(biflavanoids and derivs., alone or in combination with other antiviral agents, for viral infection prevention or treatment, and biflavanoid isolation and preparation)

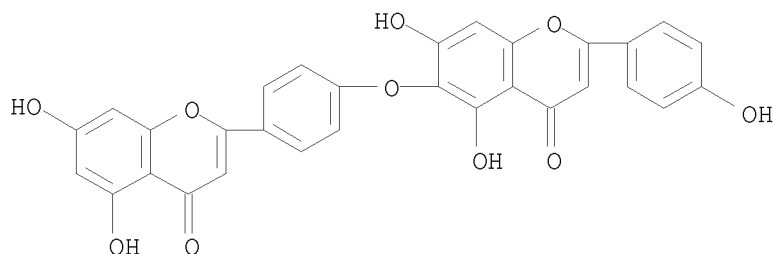
RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 30 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:430070 HCAPLUS

DOCUMENT NUMBER: 129:95353

ORIGINAL REFERENCE NO.: 129:19670h,19671a

TITLE: Isolation of biflavonoids and preparation of derivatives thereof as antiviral agents

INVENTOR(S): Lin, Yuh-meei; Flavin, Michael T.; Schure, Ralph; Zembower, David E.; Zhao, Gen-xian

PATENT ASSIGNEE(S): Medichem Research, Inc., USA

SOURCE: U.S., 33 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5773462	A	19980630	US 1996-668284	19960621
US 5948918	A	19990907	US 1998-59913	19980414
US 6399654	B1	20020604	US 1998-60839	19980415
US 20020068757	A1	20020606	US 2001-761909	20010117
PRIORITY APPLN. INFO.:			US 1995-465P	P 19950623
			US 1996-668284	A3 19960621
			WO 1996-US10718	W 19960621
			US 1997-842625	B2 19970415
			US 1998-60839	A3 19980415

AB A method for treating an influenza infection in a mammal comprises administering to said mammal an effective therapeutic amount of a substantially purified antiviral biflavonoid, selected from robustaflavone, amentoflavone, or a derivative or salt thereof. Thus, robustaflavone tetrasulfate potassium salt was prepared from robustaflavone (isolated from *Rhus succedanea*) via reaction with tetrabutylammonium hydrogen sulfate in pyridine containing dicyclohexyl carbodiimide followed treatment with K₂CO₃ in MeOH. Robustaflavone tetrasulfate potassium salt was effective against hepatitis B virus (EC₅₀ = 0.4 μ M) and showed 95.5% inhibition of HIV-1 RT at 200 μ g/mL (IC₅₀ = 144.4 μ mL).

IT 19202-36-9, Hinokiflavone

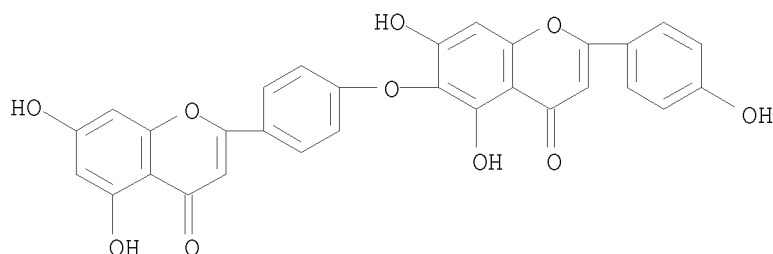
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)

(isolation of biflavonoids and preparation of derivs. thereof as antiviral agents)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)

10541677



REFERENCE COUNT: 84 THERE ARE 84 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 31 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:172486 HCAPLUS

DOCUMENT NUMBER: 126:166466

ORIGINAL REFERENCE NO.: 126:32053a,32056a

TITLE: Biflavonoids and derivatives thereof as antiviral agents, isolation thereof, and derivative preparation

INVENTOR(S): Lin, Yuh-Meei; Flavin, Michael T.; Schure, Ralph; Zembower, David E.; Zhao, Geng-Xian

PATENT ASSIGNEE(S): Medichem Research, Inc., USA

SOURCE: PCT Int. Appl., 93 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9700679	A1	19970109	WO 1996-US10718	19960621
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
CA 2225341	A1	19970109	CA 1996-2225341	19960621
AU 9662880	A	19970122	AU 1996-62880	19960621
AU 707798	B2	19990722		
EP 833631	A1	19980408	EP 1996-921740	19960621
EP 833631	B1	20021113		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 11508264	T	19990721	JP 1996-503972	19960621
EP 1245230	A2	20021002	EP 2002-10287	19960621
EP 1245230	A3	20031126		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
AT 227569	T	20021115	AT 1996-921740	19960621
US 5948918	A	19990907	US 1998-59913	19980414
PRIORITY APPLN. INFO.:			US 1995-465P	P 19950623
			EP 1996-921740	A3 19960621
			US 1996-668284	A3 19960621

Updated Search

WO 1996-US10718 W 19960621

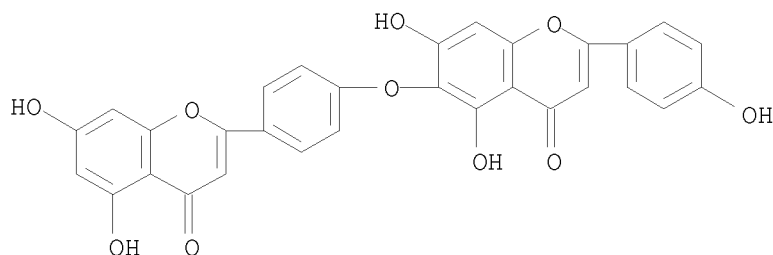
AB Substantially purified antiviral biflavanoids robustaflavone, hinokiflavone, amentoflavone, agathisflavone, volkensiflavone, morelloflavone, rhusflavanone, succedaneaflavanone, GB-1a, and GB-2a are provided. Antiviral biflavanoid derivs. and salt forms thereof, e.g., robustaflavone tetrasulfate potassium salt, and methods for preparing the same are also disclosed. Pharmaceutical compns. which include the antiviral biflavanoids, derivs. or salts thereof are also provided. Also disclosed is an improved method for obtaining substantially pure robustaflavone from plant material. The biflavanoid compds., derivs. or salts thereof of the invention may be used in a method for treating and/or preventing viral infections caused by viral agents such as influenza, e.g., influenza A and B; hepatitis, e.g., hepatitis B; human immunodeficiency virus, e.g., HIV-1; Herpes viruses (HSV-1 and HSV-2); Varicella Zoster virus (VZV); and measles.

IT 19202-36-9P, Hinokiflavone

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (biflavanoids and derivs. thereof as antiviral agents, isolation thereof, and derivative preparation)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)

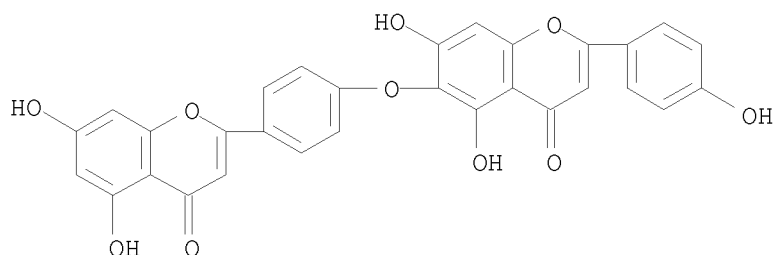


IT 19202-36-9D, Hinokiflavone, derivs.

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (biflavanoids and derivs. thereof as antiviral agents, isolation thereof, and derivative preparation)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)

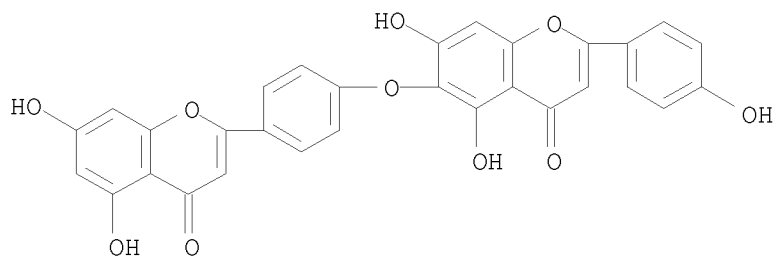


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L31 ANSWER 32 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:139734 HCAPLUS
DOCUMENT NUMBER: 126:161990
ORIGINAL REFERENCE NO.: 126:31241a,31244a
TITLE: One-package-type hair dye compositions containing
polyvalent metal salts and ascorbic acid
INVENTOR(S): Yoshimoto, Megumi; Yanaba, Shigeru
PATENT ASSIGNEE(S): Lion Corp, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 08337516	A	19961224	JP 1995-169366	19950613
PRIORITY APPLN. INFO.:			JP 1995-169366	19950613
AB	Title compns. contain polyvalent metal salts, ascorbic acid (I), and ligands. The compns. are used for dyeing of gray hair easily and do not damage the hair. A composition containing FeSO4 1.0, I 0.5, Gly 3.0, emodin 1,0, polyoxyethylene stearyl ether 0.4, coco fatty acid diethanolamide 0.3, Me p-hydroxybenzoate 0.1, EtOH 20, and H2O to 100 weight% was mixed with 7 weight% (of the composition) LPG to give a hair dye spray, which showed good hair-dyeing effect and storage stability, and no metal odor.			
IT	19202-36-9, Hinokiflavone RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (one-package-type hair dyes containing polyvalent metal salts, ascorbic acid, and ligands)			
RN	19202-36-9 HCAPLUS			
CN	4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)			



L31 ANSWER 33 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:113419 HCAPLUS
DOCUMENT NUMBER: 126:122303
ORIGINAL REFERENCE NO.: 126:23547a,23550a
TITLE: Hair growth promoting compositions containing
isoflavanoid derivatives

Updated Search

10541677

INVENTOR(S): Kung, Patrick C.; Li, Ze Zeng
PATENT ASSIGNEE(S): Kung, Patrick, C., USA
SOURCE: PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9639832	A1	19961219	WO 1996-US8433	19960603
W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IL, IS, JP, KG, KP, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, UZ, VN, AM, AZ, BY				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5639785	A	19970617	US 1995-484097	19950607
AU 9659704	A	19961230	AU 1996-59704	19960603
PRIORITY APPLN. INFO.:			US 1995-484097	A 19950607
			US 1996-659466	A 19960531
			WO 1996-US8433	W 19960603

OTHER SOURCE(S): MARPAT 126:122303

AB Novel compns. of isoflavanoid derivs. useful for the treatment of male pattern baldness and alopecia areata, promoting the conversion of gray hair to the original pigment in hair follicles, and increasing the blood supply to the brain are disclosed. The invention also relates to methods for treatment of male pattern baldness and alopecia areata, gray hair, and brain circulatory deficiencies. Sodium methoxide 6.48 was added to 50 mL DMF and the mixture was distilled to eliminate alc. then, resulting product was cooled to $\leq 20^\circ$. Dimethylamino-methoxy sulfuric acid Me ester (preparation given) was added dropwise to the cooled product and the mixture was allowed to react for 5 h. The reaction mixture was distilled to remove dimethylformamide from the mixture followed by addition of water to obtain daidzein (I). A tablet contained I 100, lactose 50, starch 23, microcryst. cellulose 2, dicalcium phosphate 30 mg, surfactants trace, and magnesium trace. The efficacy of tablets (2 tablet 3 times/day) in treatment of hypertensive male bald subject is reported.

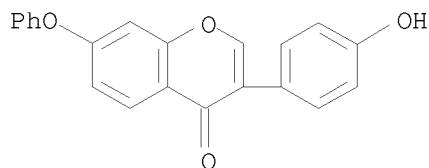
IT 186246-61-7P 186246-66-2P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair growth promoting compns. containing isoflavanoid derivs.)

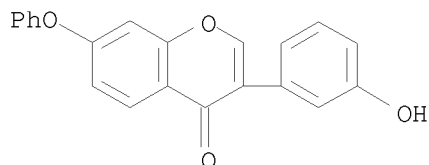
RN 186246-61-7 HCAPLUS

CN 4H-1-Benzopyran-4-one, 3-(4-hydroxyphenyl)-7-phenoxy- (CA INDEX NAME)



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RN 186246-66-2 HCAPLUS
CN 4H-1-Benzopyran-4-one, 3-(3-hydroxyphenyl)-7-phenoxy- (CA INDEX NAME)



L31 ANSWER 34 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:618491 HCAPLUS

DOCUMENT NUMBER: 125:292577

ORIGINAL REFERENCE NO.: 125:54439a,54442a

TITLE: Inhibition of phospholipase C γ 1 activity by
amentoflavone isolated from *Selaginella tamariscina*

AUTHOR(S): Lee, Hyun Sun; Oh, Won Keun; Kim, Bo Yeon; Ahn, Soon
Cheol; Kang, Dae Ook; Shin, Dong In; Kim, Jinwoong;
Mheen, Tae Ick; Ahn, Jong Seog

CORPORATE SOURCE: Korea Research Institute Bioscience Biotechnology,
Taejon, 305600, S. Korea

SOURCE: *Planta Medica* (1996), 62(4), 293-296

CODEN: PLMEAA; ISSN: 0032-0943

PUBLISHER: Thieme

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Amentoflavone (I) was isolated as an inhibitor of phospholipase C γ 1 (PLC γ 1) and phosphoinositides (PI)-turnover in PLC γ 1 overexpressing NIH3T3 fibroblasts (NIH3T3 γ 1) from *Selaginella tamariscina* together with other related biflavonoids, isocryptomerin (II) and cryptomerin B (III). Only I inhibited the PLC γ 1 activity with an IC₅₀ of 29 μ M and the formation of total inositol phosphates (IPt) in PDGF-stimulated NIH3T3 γ 1 with an IC₅₀ of 9.2 μ M but did not show inhibitory activity against protein kinase C. II and III did not show any inhibitory activity against PLC γ 1 at the concentration of 150 μ M, and did not inhibit IPt production in PDGF-induced NIH3T3 γ 1 at the concentration of 180 μ M.

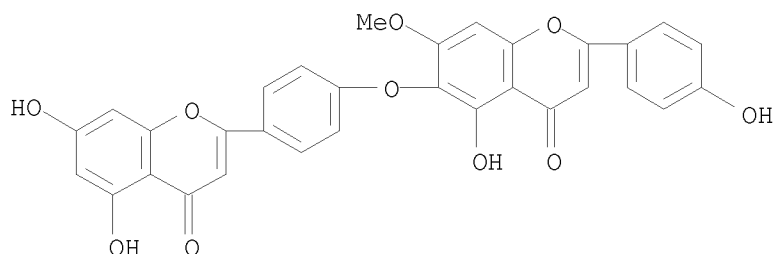
IT 20931-58-2, Isocryptomerin 22012-98-2, Cryptomerin B

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(phospholipase activity inhibition by amentoflavone from *Selaginella tamariscina*)

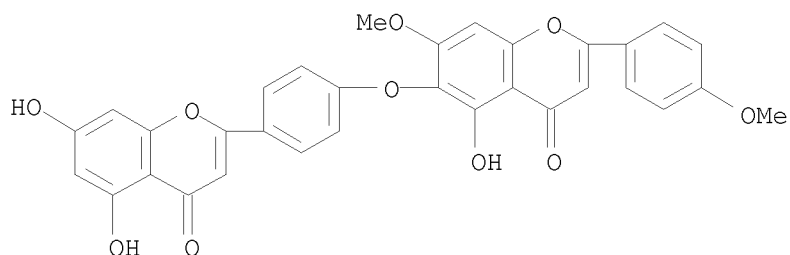
RN 20931-58-2 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)

10541677



RN 22012-98-2 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-7-methoxy-2-(4-methoxyphenyl)- (CA INDEX NAME)



L31 ANSWER 35 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1996:368278 HCAPLUS
DOCUMENT NUMBER: 125:75345
ORIGINAL REFERENCE NO.: 125:14055a,14058a
TITLE: 6-Bromoflavone, a high affinity ligand for the central benzodiazepine receptors is a member of a family of active flavonoids
AUTHOR(S): Marder, Mariel; Viola, Haydee; Wasowski, Cristina; Wolfman, Claudia; Waterman, Peter G.; Cassels, Bruce K.; Medina, Jorge H.; Paladini, Alejandro C.
CORPORATE SOURCE: Inst. Quimica Fisicoquimica Biologicas, Facultad Farmacia Bioquimica, Buenos Aires, 1113, Argent.
SOURCE: Biochemical and Biophysical Research Communications (1996), 223(2), 384-389
CODEN: BBRCA9; ISSN: 0006-291X
PUBLISHER: Academic
DOCUMENT TYPE: Journal
LANGUAGE: English
AB 6-Bromoflavone, obtained by bromination of flavone, binds to central benzodiazepine receptors with a $K_i = 70$ nM and has a clear anxiolytic activity in mice, at 0.5 mg/kg, i.p. A survey of the structure/affinity relation for those receptors in a series of natural and synthetic flavonoids is presented.
IT 178693-39-5
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(structure activity relations of a series of natural and synthetic

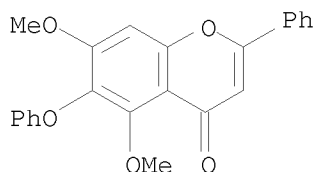
Updated Search

10541677

flavonoids as high affinity ligands for central benzodiazepine
receptors)

RN 178693-39-5 HCAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dimethoxy-6-phenoxy-2-phenyl- (CA INDEX NAME)



L31 ANSWER 36 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:133088 HCAPLUS

DOCUMENT NUMBER: 124:219862

ORIGINAL REFERENCE NO.: 124:40349a, 40352a

TITLE: Ability of Different Flavonoids To Inhibit the
Procoagulant Activity of Adherent Human Monocytes

AUTHOR(S): Lale, A.; Herbert, J. M.; Augereau, J. M.; Billon, M.;
Leconte, M.; Gleye, J.

CORPORATE SOURCE: Sanofi Recherche, Toulouse, 31036, Fr.

SOURCE: Journal of Natural Products (1996), 59(3), 273-6

CODEN: JNPRDF; ISSN: 0163-3864

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Sixty-five natural flavonoids of various chemical classes were screened for
their ability to inhibit the procoagulant activity of adherent human
monocytes stimulated by endotoxin and interleukin-1 β in vitro.
Eighteen of these compds. inhibited the interleukin-1 β -induced
expression of tissue factor on human monocytes, but the most active compound
was a biflavonoid, hinokiflavone.

IT 19202-36-9, Hinokiflavone

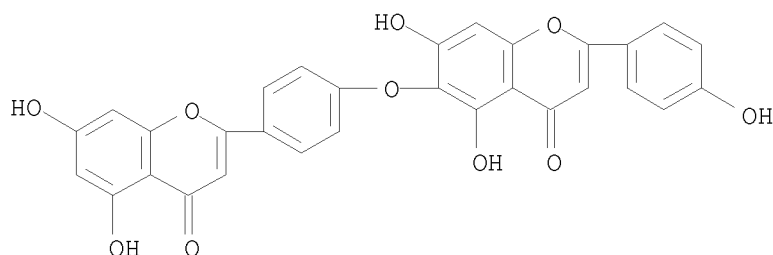
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological study);

USES (Uses)

(inhibition of procoagulant activity of adherent human monocytes by
flavonoids)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-
yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)

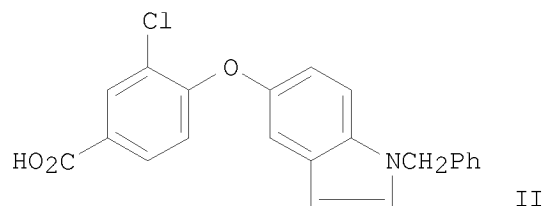
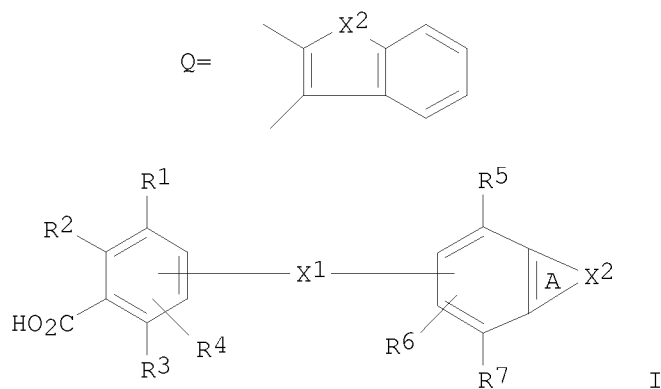


Updated Search

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L31 ANSWER 37 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1995:909403 HCAPLUS
DOCUMENT NUMBER: 123:313757
ORIGINAL REFERENCE NO.: 123:56239a,56242a
TITLE: Preparation of indolyloxybenzoic acids and analogs as
testosterone 5 α -reductase inhibitors
INVENTOR(S): Igarashi, Susumu; Isaka, Masahiko; Inami, Hiroshi;
Hara, Hiroshi; Kamitoku, Hiroshi
PATENT ASSIGNEE(S): Yamanouchi Pharma Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 70 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 07145147	A	19950606	JP 1993-296321	19931126
PRIORITY APPLN. INFO.:			JP 1993-296321	19931126
OTHER SOURCE(S):	MARPAT	123:313757		
GI				

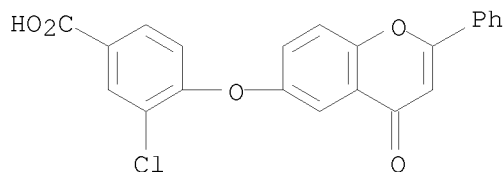


AB The title compds. I [R1 - R7 = H, halo, etc.; X1 = O, S; X2 = O, etc.; ring A = Q, etc.], useful as testosterone 5 α -reductase inhibitors (no data), are prepared The title compound II and 83 other title compds. were prepared

Updated Search

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IT 161460-10-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of indolyloxybenzoic acids and analogs as testosterone 5 α -reductase inhibitors)
RN 161460-10-2 HCAPLUS
CN Benzoic acid, 3-chloro-4-[(4-oxo-2-phenyl-4H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)

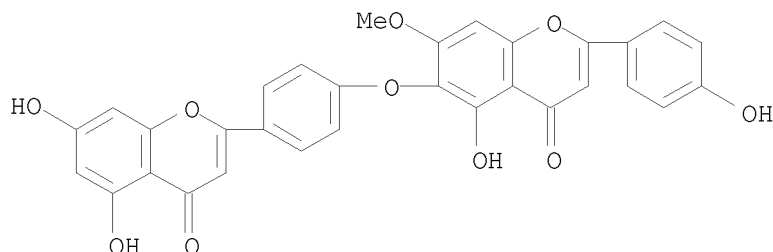


L31 ANSWER 38 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1995:662286 HCAPLUS
DOCUMENT NUMBER: 123:74451
ORIGINAL REFERENCE NO.: 123:12951a,12954a
TITLE: Suppression of mouse lymphocyte proliferation in vitro by naturally-occurring biflavonoids
AUTHOR(S): Lee, S. J.; Choi, J. H.; Son, K. H.; Chang, H. W.; Kang, S. S.; Kim, P.
CORPORATE SOURCE: Coll. Pharmacy, Kangweon Natl. Univ., Chuncheon, 200-701, S. Korea
SOURCE: Life Sciences (1995), 57(6), 551-8
CODEN: LIFSAK; ISSN: 0024-3205
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB In a continuing effort to investigate biol. activities of flavonoids, nine biflavonoids, isolated from three plant sources were evaluated for their suppressive effects on mouse lymphocyte proliferation. The biflavonoids tested were amentoflavone, bilobetin, ginkgetin, isoginkgetin, sciadopitysin, ochnaflavone, 4'-O-methylochnaflavone, cryptomerin B and isocryptomerin. At 10 μ M, several biflavonoids such as ginkgetin, isoginkgetin, ochnaflavone, cryptomerin B and isocryptomerin showed the suppressive activity against lymphocyte proliferation induced by Con A or LPS. Apigenin (flavone) and quercetin (flavonol) were suppressive against Con A-induced lymphocyte proliferation, but not against LPS-induced lymphocyte proliferation at the same concentration range. Biflavonoids were found to be irreversible inhibitors of lymphocyte proliferation. This is the first report describing the suppressive effects of naturally-occurring biflavonoids against lymphocyte proliferation.
IT 20931-58-2, Isocryptomerin 22012-98-2, Cryptomerin B
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(suppression of lymphocyte proliferation by naturally-occurring biflavonoids)
RN 20931-58-2 HCAPLUS

Updated Search

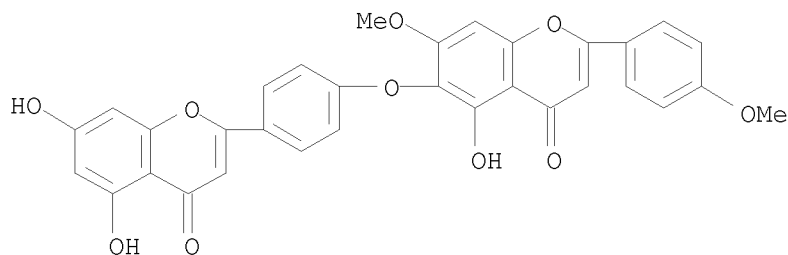
10541677

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)



RN 22012-98-2 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-7-methoxy-2-(4-methoxyphenyl)- (CA INDEX NAME)



L31 ANSWER 39 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:544919 HCAPLUS

DOCUMENT NUMBER: 123:289

ORIGINAL REFERENCE NO.: 123:55a,58a

TITLE: Comparative antilipoperoxidant, antinecrotic and scavenging properties of terpenes and biflavones from Ginkgo and some flavonoids

AUTHOR(S): Joyeux, M.; Lobstein, A.; Anton, R.; Mortier, F.

CORPORATE SOURCE: CEREPHA, Metz, F-57000, Fr.

SOURCE: Planta Medica (1995), 61(2), 126-9

CODEN: PLMEAA; ISSN: 0032-0943

PUBLISHER: Thieme

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Ginkgo biloba extract is known to be efficient in diseases associated with free radical generation. This study compares the in vitro effect of some constituents of Ginkgo against lipid peroxidn. and cell necrosis of isolated rat hepatocytes, and against superoxide anion which is generally implicated in cell damages.

IT 19202-36-9, Hinokiflavone

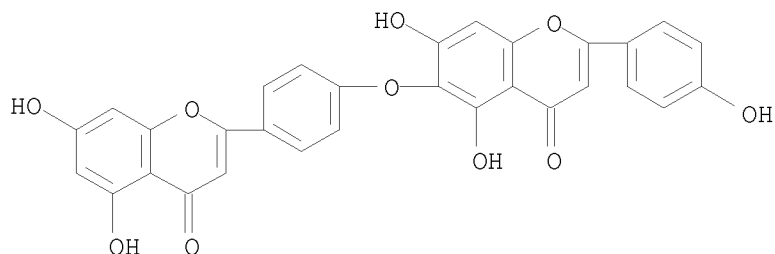
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(comparative antilipoperoxidant and antinecrotic and scavenging

Updated Search

10541677

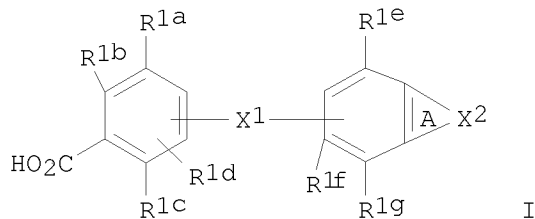
properties of terpenes and biflavones from Ginkgo and some flavonoids)
RN 19202-36-9 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



L31 ANSWER 40 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1995:408500 HCAPLUS
DOCUMENT NUMBER: 122:160472
ORIGINAL REFERENCE NO.: 122:29573a,29576a
TITLE: Preparation of pyran moiety-containing benzoic acid
analogs as testosterone 5 α -reductase inhibitors
INVENTOR(S): Hara, Hiroshi; Igarashi, Susumu; Isaka, Masahiko;
Nagaoka, Hitoshi; Kamitoku, Hiroshi
PATENT ASSIGNEE(S): Yamanouchi Pharma Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06312976	A	19941108	JP 1993-124963	19930428
PRIORITY APPLN. INFO.:			JP 1993-124963	19930428
OTHER SOURCE(S):			CASREACT 122:160472; MARPAT 122:160472	

GI



AB The title compds. [I; R1a-R1g = H, alkyl, alkenyl, alkynyl, halo, etc.; X1 = O, S; X2 = O, S, (un)substituted imino], testosterone 5 α -reductase inhibitors (no data) and therefore useful for treatment of prostate

Updated Search

10541677

enlargement, are prepared 5-(Benzyloxy)indole in DMSO was reacted with benzyl bromide at room temperature for 3 h to give 1-benzyl-5-(benzyloxy)-1H-indole, which was hydrogenolyzed to give 1-benzyl-5-hydroxy-1H-indole, which was reacted with 3-chloro-4-fluorobenzonitrile to give 3-chloro-4-[(1-benzyl-1H-indol-5-yl)oxy]benzonitrile, which was refluxed with KOH for 3 h to give the title compound 3-chloro-4-[(1-benzyl-1H-indol-5-yl)oxy]benzoic acid.

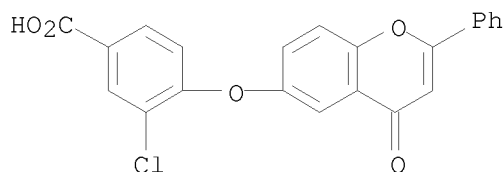
IT 161460-10-2P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyran moiety-containing benzoic acid analogs as testosterone 5 α -reductase inhibitors)

RN 161460-10-2 HCAPLUS

CN Benzoic acid, 3-chloro-4-[(4-oxo-2-phenyl-4H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



L31 ANSWER 41 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:450555 HCAPLUS

DOCUMENT NUMBER: 119:50555

ORIGINAL REFERENCE NO.: 119:9189a,9192a

TITLE: Electrically conductive polyoxyphenylene compositions for heat-resistant IC trays

INVENTOR(S): Nakazawa, Keiichi; Ueda, Sumio

PATENT ASSIGNEE(S): Asahi Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

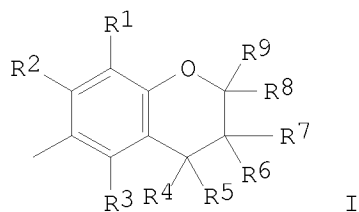
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04288363	A	19921013	JP 1991-77258	19910318
JP 3073779	B2	20000807		
PRIORITY APPLN. INFO.: GI			JP 1991-77258	19910318



Updated Search

AB The title compns. with good moldability and no delamination comprise (a) polyoxyphenylenes containing >0.01% terminal group I (R1-9 = H, halo, hydrocarbyl; R6-R7 and/or R8-R9 may form spiro-ring) 10-99, (b) a 50-90:10-50 copolymer (II) of a vinyl aromatic compound block and an olefin block (with unsatn. <20%) 1-90, (c) a 20-50:50-80 II 0-10%, and (d) 3-40 phr elec. conductive carbon black. Thus, 2,6-dimethylxylenol was polymerized in the presence of dibutylamine followed by reacting with styrene to give a polyoxyphenylene with I (R1 = Me, R2-8 = H, R9 = Ph), which was blended with a styrene-olefin block copolymer and Ketjen Black EC and molded to give elec. conductive moldings with good heat resistance.

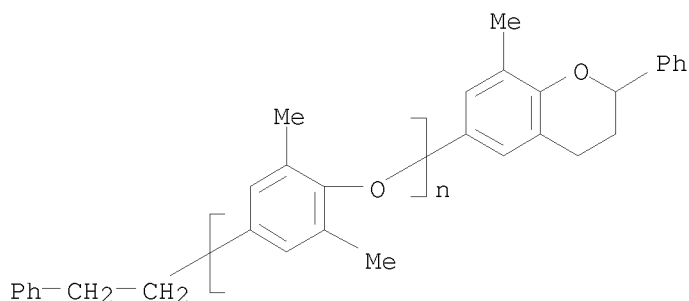
IT 148828-31-3 148828-32-4 148828-33-5
148828-34-6

RL: USES (Uses)

(blends with styrene block copolymers and carbon black, for elec. conductive IC trays)

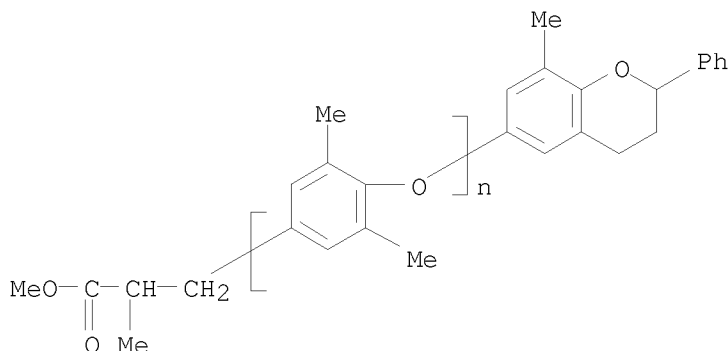
RN 148828-31-3 HCAPLUS

CN Poly[oxy(2,6-dimethyl-1,4-phenylene)], α -(3,4-dihydro-8-methyl-2-phenyl-2H-1-benzopyran-6-yl)- ω -(2-phenylethyl)- (9CI) (CA INDEX NAME)



RN 148828-32-4 HCAPLUS

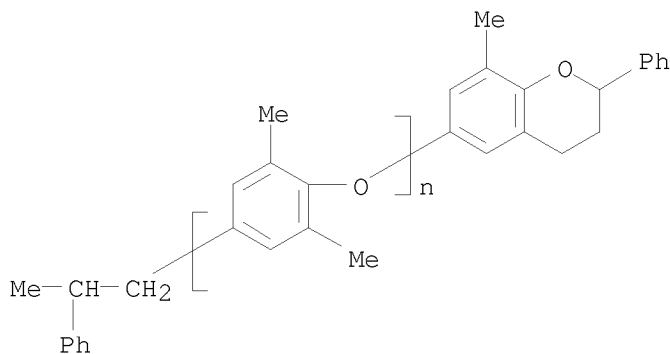
CN Poly[oxy(2,6-dimethyl-1,4-phenylene)], α -(3,4-dihydro-8-methyl-2-phenyl-2H-1-benzopyran-6-yl)- ω -(3-methoxy-2-methyl-3-oxopropyl)- (9CI) (CA INDEX NAME)



RN 148828-33-5 HCAPLUS

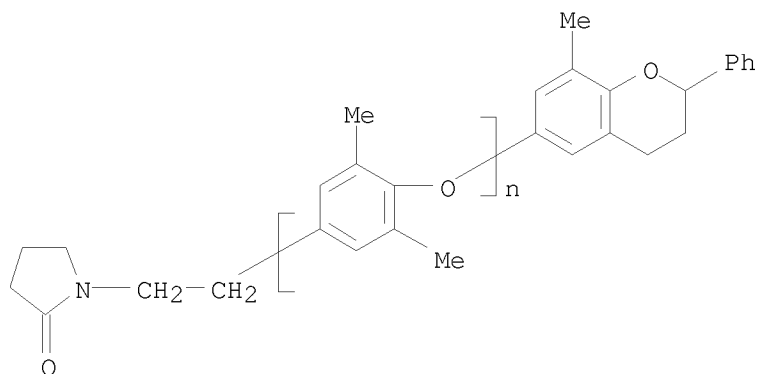
10541677

CN Poly[oxy(2,6-dimethyl-1,4-phenylene)], α -(3,4-dihydro-8-methyl-2-phenyl-2H-1-benzopyran-6-yl)- ω -(2-phenylpropyl)- (9CI) (CA INDEX NAME)



RN 148828-34-6 HCAPLUS

CN Poly[oxy(2,6-dimethyl-1,4-phenylene)], α -(3,4-dihydro-8-methyl-2-phenyl-2H-1-benzopyran-6-yl)- ω -[2-(2-oxo-1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)



L31 ANSWER 42 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:614389 HCAPLUS

DOCUMENT NUMBER: 111:214389

ORIGINAL REFERENCE NO.: 111:35557a,35560a

TITLE: Preparation and formulation of 7-methanesulfonylamino-6-phenoxy-4H-1-benzopyran-4-ones and analogs as antiinflammatory agents

INVENTOR(S): Takano, Shuntaro; Yoshida, Chosaku; Inaba, Takihiro; Tanaka, Keiichi; Takeno, Ryuko; Nagaki, Hideyoshi; Shimotori, Tomoya; Makino, Shinji

PATENT ASSIGNEE(S): Toyama Chemical Co., Ltd., Japan

SOURCE: Ger. Offen., 142 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

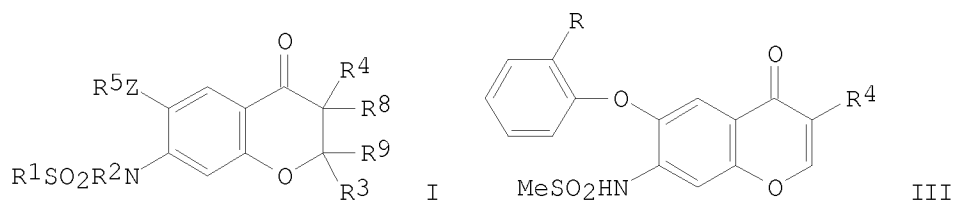
Updated Search

10541677

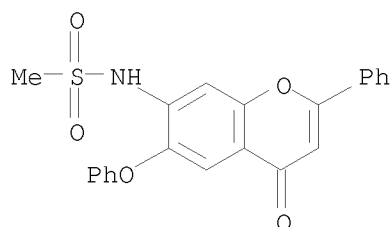
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3834204	A1	19890420	DE 1988-3834204	19881007
DE 3834204	C2	19920423		
JP 02049778	A	19900220	JP 1988-250811	19881006
JP 07053725	B	19950607		
FI 8804626	A	19890409	FI 1988-4626	19881007
FI 98460	B	19970314		
FI 98460	C	19970625		
SE 8803570	A	19890409	SE 1988-3570	19881007
SE 468595	B	19930215		
SE 468595	C	19930617		
AU 8823489	A	19890413	AU 1988-23489	19881007
AU 605363	B2	19910110		
FR 2621585	A1	19890414	FR 1988-13205	19881007
FR 2621585	B1	19940128		
NL 8802464	A	19890501	NL 1988-2464	19881007
NL 194914	B	20030303		
NL 194914	C	20030704		
GB 2210879	A	19890621	GB 1988-23567	19881007
GB 2210879	B	19910918		
ES 2013801	A6	19900601	ES 1988-3062	19881007
US 4954518	A	19900904	US 1988-255121	19881007
BE 1002226	A5	19901023	BE 1988-1158	19881007
CH 679397	A5	19920214	CH 1988-3763	19881007
CA 1320959	C	19930803	CA 1988-579624	19881007
AT 8802495	A	19930615	AT 1988-2495	19881010
AT 397088	B	19940125		
ES 2017836	A6	19910301	ES 1989-3464	19891013
ES 2017837	A6	19910301	ES 1989-3466	19891013
ES 2017838	A6	19910301	ES 1989-3467	19891013
ES 2017839	A6	19910301	ES 1989-3468	19891013
ES 2018111	A6	19910316	ES 1989-3463	19891013
ES 2018112	A6	19910316	ES 1989-3465	19891013
ES 2018113	A6	19910316	ES 1989-3469	19891013
JP 07267943	A	19951017	JP 1995-2492	19950111
PRIORITY APPLN. INFO.:			JP 1987-254251	A 19871008
			JP 1988-119990	A 19880517
			JP 1988-250811	A 19881006

OTHER SOURCE(S): MARPAT 111:214389
GI

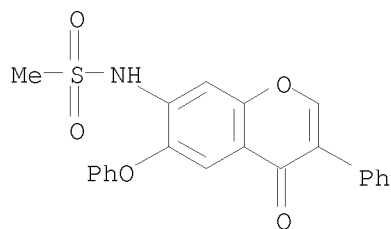


- AB The title compds. [I; R1 = (halo)alkyl, alkenyl, aryl; R2 = H, alkyl, acyl; R3 = H, halo, cyano, N3, CHO, CO2H, OH, alkoxycarbonyl, (un)substituted alkyl, alkoxy, PhO, cycloalkyl, CONH2, NH2, Ph; R4 = H, NO2, cyano, CO2H, acyl, OH, alkoxycarbonyl, (un)substituted alkyl, alkoxy, alkylthio, PhS, alkenyl, alkynyl, SO2NH2, alkylsulfinyl, alkylsulfonyl, amidino, Ph, heterocyclyl, NR6R7, CONR6R7; R5 = (un)substituted Ph, thienyl, furyl, pyridyl; R6 = H, OH, cyano, alkoxycarbonyl, (un)substituted alkyl, cycloalkyl, Ph, NH2, acyl, carbamoyl, etc.; R7 = H, (un)substituted alkyl, alkoxy, Ph, cycloalkyl; NR6R7 = heterocyclyl; R7,R8 = H; R7R8 = bond; Z = O, S, NH] were prepared I are outstanding antiinflammatory agents and show essentially no ulcerative effect, and are also useful as antipyretics. 3,4-(MeSO2NH)(PhO)C6H3OH (preparation given) was refluxed 30 min with ClCH2CH2CO2H in aqueous NaOH to give 3,4-(MeSO2NH)(PhO)C6H3OCH2CH2CO2H which was stirred 1.5 h at 65-70° with PPA to give I (R1 = Me, R2 = R3 = R4 = R8 = R9 = H, R5 = Ph, Z = O) (II). The latter was brominated to II (R4 = Br), which was stirred 1 h at 70-75° with NaN3 in DMF and conversion of the resulting azide into an amine to to give benzopyranone III (R = H, R4 = NH2). The latter was stirred 1 h in CH2Cl2 with a mixture of HCO2H and Ac2O which had stirred 1.5 h at 40-45° to give III (R = H, R4 = NHCHO). III (R = F, R4 = NHCHO) (IV) gave ≥40% inhibition of carrageenin-induced paw edema in rats receiving up to 10 mg/kg orally. Capsules were prepared each containing
IV 50, lactose 114.5, starch 20, hydroxypropylcellulose 2, silica 1.5, ECG 505 10, and Mg stearate 2 mg.
- IT 123662-65-7P 123663-35-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as antiinflammatory agent)
- RN 123662-65-7 HCAPLUS
- CN Methanesulfonamide, N-(4-oxo-6-phenoxy-2-phenyl-4H-1-benzopyran-7-yl)-
(CA INDEX NAME)



- RN 123663-35-4 HCAPLUS
- CN Methanesulfonamide, N-(4-oxo-6-phenoxy-3-phenyl-4H-1-benzopyran-7-yl)-
(CA INDEX NAME)

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=> file caold
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ENTRY	SESSION
253.25	1009.19

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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- . December 31, 2008 - removed from STN

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(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

Updated Search

10541677

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FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008
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L2      0 S L1
L3      STRUCTURE UPLOADED
L4      1 S L3
L5      STRUCTURE UPLOADED
L6      0 S L5
L7      1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008
L8      1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008
L9      0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008
L10     STRUCTURE UPLOADED
L11     0 S L10
L12     1 S L10 FULL
L13     1 S L12 NOT L7

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L14     1 S L13

FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008
L15     0 S L13

FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008
L16     STRUCTURE UPLOADED
L17     14 S L16
L18     232 S L16 FULL

FILE 'HCAPLUS' ENTERED AT 17:47:49 ON 05 SEP 2008
L19     2 S L18
L20     2 S L19 AND OTSOMAA, L?/AU

FILE 'CAOLD' ENTERED AT 17:48:39 ON 05 SEP 2008
L21     0 S L18

FILE 'REGISTRY' ENTERED AT 17:49:36 ON 05 SEP 2008
L22     STRUCTURE UPLOADED
L23     0 S L22
L24     178 S L22 FULL

FILE 'HCAPLUS' ENTERED AT 17:53:07 ON 05 SEP 2008
L25     0 S L24 AND OTSOMAAA, L?/AU
L26     1 S L24 AND KOSKELAINEN, T?/AU
L27     232 S L24
L28     1 S L27 AND OTSOMAA, L?/AU
L29     43 S L24/USES
L30     1 S L29 AND OTSOMAA, L?/AU
L31     42 S L29 NOT L30
L32     0 S L31 AND KOSKELAINEN, T?/AU
L33     0 S L31 AND KARJALAINEN, A?/AU
L34     0 S L31 AND RASKU, S?/AU
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Updated Search

10541677

L35 0 S L31 AND POLLESELLO, P?/AU
L36 0 S L31 AND LEVIJOKI, J?/AU

FILE 'CAOLD' ENTERED AT 17:56:03 ON 05 SEP 2008

=> s l24

L37 14 L24

=> d l37, all, 1-14

L37 ANSWER 1 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA64:16278c CAOLD
TI electron-microscopic study of the action of pepsin and ribonuclease on the
meristematic cells of radishes and squash
AU Thomas, Pierre
IT 521-50-6 1617-53-4

L37 ANSWER 2 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA64:11158c CAOLD
TI synthesis of hinokiflavone pentamethyl ether
AU Krishnan, S. K.; Murti, V. V. S.; Seshadri, T. R.
IT 1919-74-0

L37 ANSWER 3 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA63:9908b CAOLD
TI formation of flavones by thermal condensation of monosubstituted
monophenols and ethyl 3,4,5-trimethoxybenzoylacetate
AU Vialard-Goudou, Andre; Blanchecotte, N.
IT 3044-54-0 3044-55-1 3044-56-2 3044-57-3 3044-58-4
3044-59-5

L37 ANSWER 4 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA62:5248b CAOLD
TI reaction of flavone derivs. with Sr - (I) precipitating reaction of flavone
derivs. with Sr
AU Iritani, Nobuhiko; Takino, Y.; Nakano, T.; Kazama, S.
IT 1244-78-6 1245-15-4 1247-97-8 1974-08-9 2068-02-2
2726-83-2 31326-82-6 97979-14-1 98493-60-8

L37 ANSWER 5 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA62:5247g CAOLD
TI naturally occurring hinokiflavone methyl ethers
AU Kawano, Nobusuke; Miura, H.; Waiss, A. C., Jr.
IT 521-50-6 1230-19-9 1262-87-9 1447-85-4
1919-74-0 22012-97-1 31326-81-5

L37 ANSWER 6 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA60:14462f CAOLD
TI flavans and related compds. - (I) hydroxyflavans
AU Rao, C. Bheemasankara; Venkateswarlu, V.
IT 26081-90-3 54560-32-6 93878-19-4 94549-43-6 95020-88-5
95431-54-2 95486-82-1 95560-47-7 95625-98-2 95697-57-7
96669-22-6 96671-80-6 98220-95-2 98637-74-2 102185-89-7

L37 ANSWER 7 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA55:10425d CAOLD

Updated Search

10541677

- TI constituents of the plants of Coniferae and allied orders - (XLVI)
isolation of hinokiflavone from the leaves of *Cryptomeria japonica*
AU Kawano, Nobusuke
IT 19202-36-9 19202-39-2 19825-55-9
- L37 ANSWER 8 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA54:24698i CAOLD
TI constituents of plants of Coniferae and allied orders - (XL-XLI) structure
of hinokiflavone, a flavonoid from the leaves of *Chamaecyparis obtusa* (4)
degradation of hinokiflavone pentamethyl ether in ethanolic KOH solution and
the structures of substance Y and Z, (5) in methanolic Ba(OH)₂ solution
AU Fukui, Yoshio
IT 90-24-4 521-50-6 717-14-6 854-04-6
19202-36-9 19202-39-2 51758-31-7 99076-32-1
100622-10-4 101585-43-7 101595-58-8 101597-97-1 101597-99-3
101790-81-2 101790-82-3 103153-99-7 103155-88-0 103649-83-8
108170-07-6 109560-30-7 113863-14-2 122725-13-7
- L37 ANSWER 9 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA54:24698d CAOLD
TI constituents of plants of Coniferae and allied orders - (XXXIX) structure
of hinokiflavone, a flavonoid from the leaves of *Chamaecyparis obtusa* (3)
structure of substance X and oxoflavone
AU Kawano, Nobusuke; Fukui, Y.
IT 621-23-8 19202-36-9 101169-71-5 102948-15-2 108170-07-6
114255-62-8 114398-38-8 115830-14-3 116056-51-0 118953-23-4
- L37 ANSWER 10 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA54:24698a CAOLD
TI constituents of the plants of Coniferae and allied orders - (XXXVIII)
structure of hinokiflavone, a flavonoid from the leaves of *Chamaecyparis*
obtusa (2) composition of hinokiflavone and its degradation in KOH solution
AU Kariyone, Tatsuo; Fukui, Y.
IT 19202-36-9 19202-39-2 19825-55-9
124162-05-6 124162-09-0
- L37 ANSWER 11 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA54:17387a CAOLD
TI structure of hinokiflavone, a new type bisflavonoid
AU Fukui, Yoshio; Kawano, N.
IT 90-24-4 521-50-6 1919-74-0 3361-72-6
19202-36-9 100622-10-4 101110-96-7 101169-71-5 101597-97-1
103153-99-7 106592-95-4 108170-07-6 109101-96-4 109442-64-0
112742-08-2 114254-36-3
- L37 ANSWER 12 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA53:3204b CAOLD
TI synthesis of derivs. of carbamic, thiocarbamic, and diothiocarbamic acids
AU Macko, Jozef
IT 3432-25-5 19202-36-9 20784-98-9 20784-99-0 37982-60-8
61670-49-3 99071-72-4 99072-02-3 100135-15-7 102554-57-4
102554-71-2 104510-11-4 109017-42-7
- L37 ANSWER 13 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA53:3203b CAOLD
TI flavonoids of the leaves of Coniferae and allied plants - (I) flavonoid

Updated Search

10541677

from the leaves of *Torreya nucifera*, (II) *Cycas revoluta* and *Cryptomeria japonica*, (III) *Taxus cuspidata* and relation between ginkgetin, kyaflavone, sciadopitysin, and sotetsuflavone, (IV) *Chamaecyparis obtusa*
AU Kariyone, Tatsuo; Sawada, T.
IT 481-45-8 521-34-6 2608-21-1 3778-25-4 3778-26-5
17482-35-8 17482-36-9 19202-36-9 63043-62-9 67882-15-9
107225-53-6 108677-14-1 120297-65-6 122426-01-1 124270-14-0

L37 ANSWER 14 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA52:18390f CAOLD
TI constituents of the plant of Coniferae and allied orders - (XX) components
of the leaves of *Metasequoia glytostroboides* (1)
AU Kariyone, Tatsuo; Takahashi, M.; Isoi, K.; Yoshikura, M.
IT 19202-36-9

=> FIL REGISTRY

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FULL ESTIMATED COST	10.12	1019.31
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	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

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DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 521-50-6/RN

L38 1 521-50-6/RN

=> SET NOTICE 1 DISPLAY

Updated Search

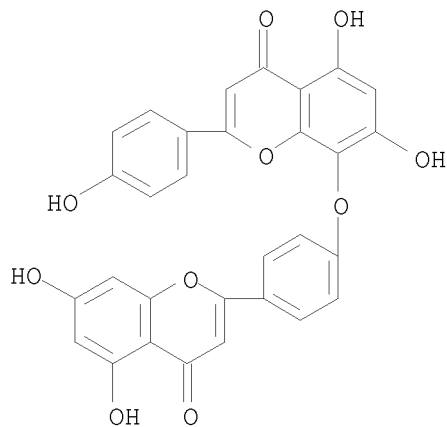
10541677

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L38 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L38 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 521-50-6 REGISTRY
CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Flavone, 4''',5,5'',7,7''-pentahydroxy-4',8''-oxydi- (6CI)
CN Flavone, 4',5,5'',7,7''-pentahydroxy-4''',8-oxydi- (7CI, 8CI)
OTHER NAMES:
CN Lanaroflavone
MF C30 H18 O10
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PRP (Properties); USES (Uses); NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

Updated Search

10541677

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.46	1021.77
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:56:56 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 1919-74-0/RN

L39 1 1919-74-0/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

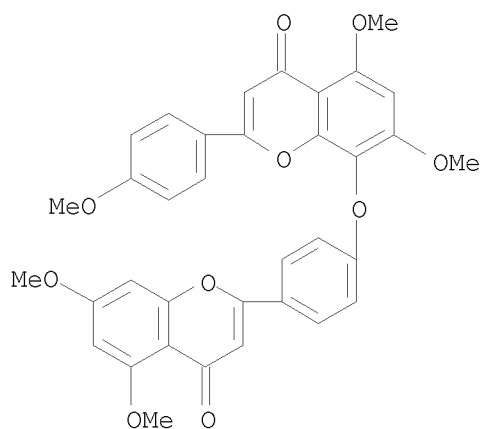
=> D L39 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

Updated Search

10541677

L39 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1919-74-0 REGISTRY
CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dimethoxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dimethoxy-2-(4-methoxyphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Flavone, 4'''',5,5'',7,7''-pentamethoxy-4',8''-oxydi- (6CI)
CN Flavone, 4',5,5'',7,7''-pentamethoxy-4''',8-oxydi- (7CI, 8CI)
OTHER NAMES:
CN Lanaroflavone pentamethyl ether
CN Penta-O-methylanaroflavone
DR 11036-51-4
MF C35 H28 O10
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: ANST (Analytical study); PREP (Preparation);
PRP (Properties)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17 REFERENCES IN FILE CA (1907 TO DATE)
17 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
----------------------	------------	-------

Updated Search

10541677

	ENTRY	SESSION
FULL ESTIMATED COST	2.46	1024.23
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:57:09 ON 05 SEP 2008
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DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 3044-59-5/RN

L40 1 3044-59-5/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

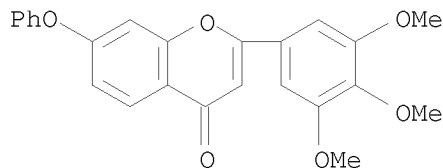
=> D L40 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L40 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 3044-59-5 REGISTRY
CN Flavone, 3',4',5'-trimethoxy-7-phenoxy- (7CI, 8CI) (CA INDEX NAME)
MF C24 H20 O6
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

Updated Search

10541677



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.46	1026.69
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:57:25 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

Updated Search

10541677

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> S 31326-82-6/RN

L41 1 31326-82-6/RN

=> SET NOTICE 1 DISPLAY

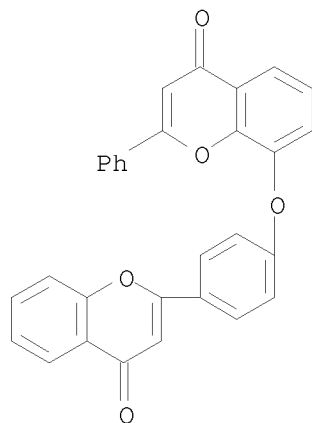
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L41 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L41 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 31326-82-6 REGISTRY
CN Flavone, dihydroxytrimethoxy-4''',8-oxydi- (7CI, 8CI) (CA INDEX NAME)
MF C33 H24 O10
CI IDS
LC STN Files: CA, CAOLD, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

PAGE 1-A



3 (D1-O-Me)

PAGE 2-A

2 (D1-OH)

Updated Search

10541677

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.46	1029.15
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:57:41 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 521-50-6/RN

L42 1 521-50-6/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

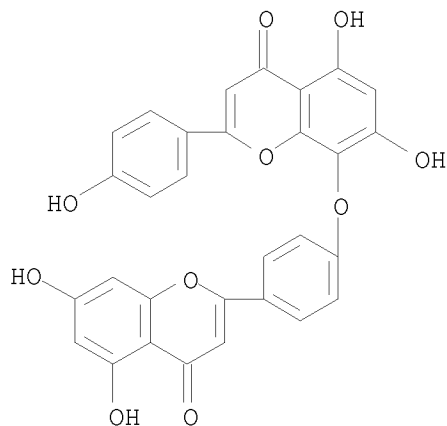
Updated Search

10541677

=> D L42 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L42 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 521-50-6 REGISTRY
CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Flavone, 4''',5,5'',7,7''-pentahydroxy-4',8''-oxydi- (6CI)
CN Flavone, 4',5,5'',7,7''-pentahydroxy-4''',8-oxydi- (7CI, 8CI)
OTHER NAMES:
CN Lanaroflavone
MF C30 H18 O10
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PRP (Properties); USES (Uses); NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

Updated Search

10541677

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.46	1031.61
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:58:01 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 122426-01-1/RN

L43 1 122426-01-1/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L43 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L43 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 122426-01-1 REGISTRY
CN Hinokiflavone, tetra-O-methyl- (6CI) (CA INDEX NAME)
MF C34 H26 O10

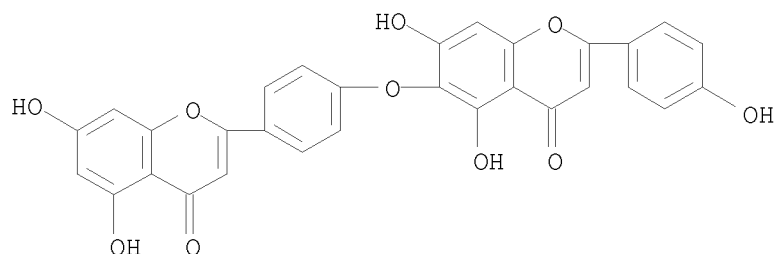
Updated Search

10541677

CI IDS
SR CAOLD
LC STN Files: CA, CAOLD, CAPLUS
DT.CA CAPLUS document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

CM 1

CRN 19202-36-9
CMF C30 H18 O10



CM 2

CRN 67-56-1
CMF C H4 O

H₃C—OH

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.46	1034.07
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:58:23 ON 05 SEP 2008

Updated Search

10541677

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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 122725-13-7/RN

L44 1 122725-13-7/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

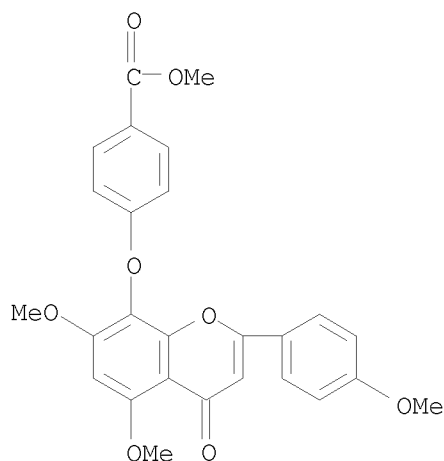
=> D L44 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L44 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 122725-13-7 REGISTRY
CN Benzoic acid, 4-[[5,7-dimethoxy-2-(4-methoxyphenyl)-4-oxo-4H-1-benzopyran-8-yl]oxy]-, methyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzoic acid, p-[5,7-dimethoxy-2-(p-methoxyphenyl)-4-oxo-4H-1-benzopyran-8-yloxy]-, methyl ester (6CI)
MF C26 H22 O8
SR CAOLD
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); NORL (No role in record)

Updated Search

10541677



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.46	1036.53
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:58:40 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

Updated Search

10541677

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 112742-08-2/RN

L45 1 112742-08-2/RN

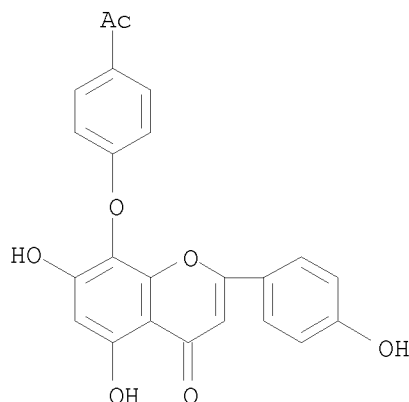
=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L45 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L45 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 112742-08-2 REGISTRY
CN Flavone, 8-(p-acetylphenoxy)-4',5,7-trihydroxy- (6CI) (CA INDEX NAME)
MF C23 H16 O7
SR CAOLD
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

Updated Search

10541677

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.46	1038.99
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:58:59 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 521-50-6/RN

L46 1 521-50-6/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

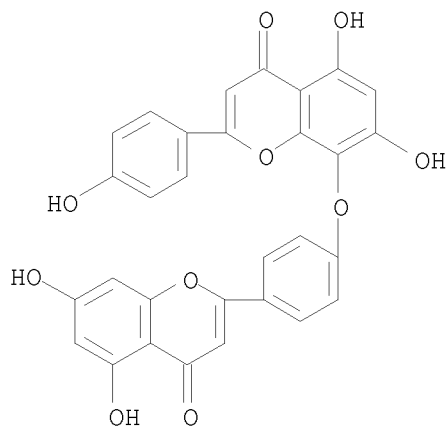
Updated Search

10541677

=> D L46 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L46 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 521-50-6 REGISTRY
CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Flavone, 4''',5,5'',7,7''-pentahydroxy-4',8''-oxydi- (6CI)
CN Flavone, 4',5,5'',7,7''-pentahydroxy-4''',8-oxydi- (7CI, 8CI)
OTHER NAMES:
CN Lanaroflavone
MF C30 H18 O10
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PRP (Properties); USES (Uses); NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

Updated Search

10541677

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.46	1041.45
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:59:16 ON 05 SEP 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 1919-74-0/RN

L47 1 1919-74-0/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L47 SQIDE 1-

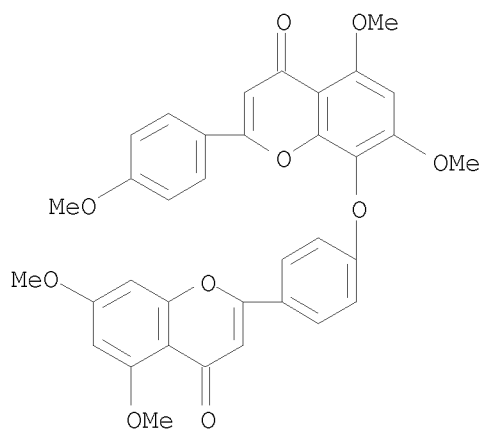
YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L47 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1919-74-0 REGISTRY
CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dimethoxy-4-oxo-4H-1-benzopyran-2-

Updated Search

10541677

yl)phenoxy]-5,7-dimethoxy-2-(4-methoxyphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Flavone, 4''',5,5'',7,7''-pentamethoxy-4',8''-oxydi- (6CI)
CN Flavone, 4',5,5'',7,7''-pentamethoxy-4''',8-oxydi- (7CI, 8CI)
OTHER NAMES:
CN Lanaroflavone pentamethyl ether
CN Penta-O-methylanaroflavone
DR 11036-51-4
MF C35 H28 O10
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: ANST (Analytical study); PREP (Preparation);
PRP (Properties)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17 REFERENCES IN FILE CA (1907 TO DATE)
17 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.46	1043.91

Updated Search

10541677

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:59:47 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 122426-01-1/RN

L48 1 122426-01-1/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L48 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

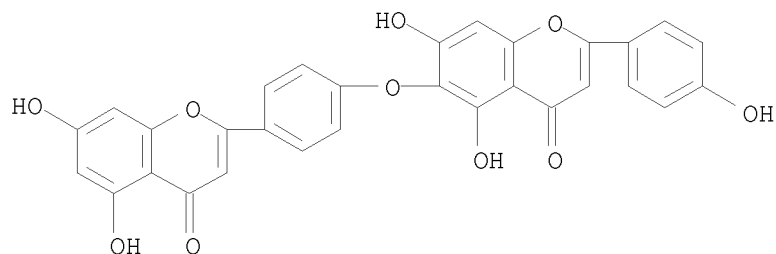
L48 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 122426-01-1 REGISTRY
CN Hinokiflavone, tetra-O-methyl- (6CI) (CA INDEX NAME)
MF C34 H26 O10
CI IDS
SR CAOLD
LC STN Files: CA, CAOLD, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

CM 1

Updated Search

10541677

CRN 19202-36-9
CMF C30 H18 O10



CM 2

CRN 67-56-1
CMF C H4 O

H₃C—OH

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.46	1046.37
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 18:00:20 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

Updated Search

10541677

DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 22012-97-1/RN

L49 1 22012-97-1/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

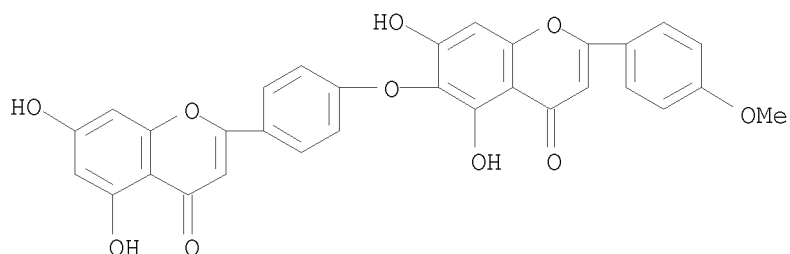
=> D L49 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L49 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 22012-97-1 REGISTRY
CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-methoxyphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Flavone, 4'-methoxy-4''',6-oxybis[5,7-dihydroxy- (8CI)
CN Flavone, 4'-methoxy-4''',8-oxybis[5,7-dihydroxy- (7CI)
OTHER NAMES:
CN Cryptomerin A
DR 1262-87-9
MF C31 H20 O10
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, NAPRALERT
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PRP (Properties); RACT (Reactant or reagent); NORL (No role in record)

Updated Search

10541677



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.46	1048.83
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 18:00:34 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of

Updated Search

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experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 114398-38-8/RN

L50 1 114398-38-8/RN

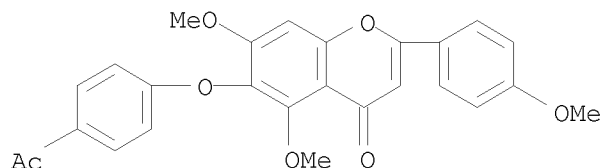
=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L50 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L50 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 114398-38-8 REGISTRY
CN Flavone, 6-(p-acetylphenoxy)-4',5,7-trimethoxy- (6CI) (CA INDEX NAME)
MF C26 H22 O7
SR CAOLD
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

Updated Search

10541677

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.38	1052.21
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 18:02:24 ON 05 SEP 2008
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 31326-81-5/RN

L51 1 31326-81-5/RN

=> SET NOTICE 1 DISPLAY

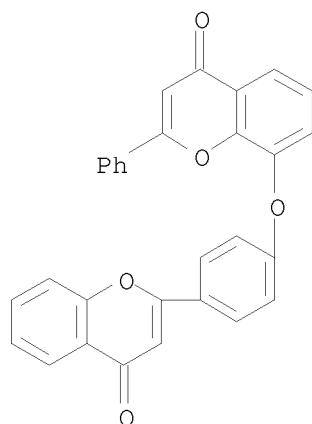
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L51 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L51 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 31326-81-5 REGISTRY
CN Flavone, trihydroxydimethoxy-4''',8-oxydi- (7CI, 8CI) (CA INDEX NAME)
MF C32 H22 O10
CI IDS
LC STN Files: CA, CAOLD, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

Updated Search



2 (D1-O-Me)

3 (D1-OH)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> d his

(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008

L1	STRUCTURE UPLOADED
L2	0 S L1
L3	STRUCTURE UPLOADED
L4	1 S L3
L5	STRUCTURE UPLOADED
L6	0 S L5
L7	1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008

Updated Search

10541677

L8 1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008

L9 0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008

L10 STRUCTURE UPLOADED

L11 0 S L10

L12 1 S L10 FULL

L13 1 S L12 NOT L7

FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008

L14 1 S L13

FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008

L15 0 S L13

FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008

L16 STRUCTURE UPLOADED

L17 14 S L16

L18 232 S L16 FULL

FILE 'HCAPLUS' ENTERED AT 17:47:49 ON 05 SEP 2008

L19 2 S L18

L20 2 S L19 AND OTSOMAA, L?/AU

FILE 'CAOLD' ENTERED AT 17:48:39 ON 05 SEP 2008

L21 0 S L18

FILE 'REGISTRY' ENTERED AT 17:49:36 ON 05 SEP 2008

L22 STRUCTURE UPLOADED

L23 0 S L22

L24 178 S L22 FULL

FILE 'HCAPLUS' ENTERED AT 17:53:07 ON 05 SEP 2008

L25 0 S L24 AND OTSOMAAA, L?/AU

L26 1 S L24 AND KOSKELAINEN, T?/AU

L27 232 S L24

L28 1 S L27 AND OTSOMAA, L?/AU

L29 43 S L24/USES

L30 1 S L29 AND OTSOMAA, L?/AU

L31 42 S L29 NOT L30

L32 0 S L31 AND KOSKELAINEN, T?/AU

L33 0 S L31 AND KARJALAINEN, A?/AU

L34 0 S L31 AND RASKU, S?/AU

L35 0 S L31 AND POLLESELLO, P?/AU

L36 0 S L31 AND LEVIJOKI, J?/AU

FILE 'CAOLD' ENTERED AT 17:56:03 ON 05 SEP 2008

L37 14 S L24

FILE 'REGISTRY' ENTERED AT 17:56:36 ON 05 SEP 2008

L38 1 S 521-50-6/RN

 SET NOTICE 1 DISPLAY

 SET NOTICE LOGIN DISPLAY

Updated Search

10541677

L39 FILE 'REGISTRY' ENTERED AT 17:56:56 ON 05 SEP 2008
1 S 1919-74-0/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L40 FILE 'REGISTRY' ENTERED AT 17:57:09 ON 05 SEP 2008
1 S 3044-59-5/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L41 FILE 'REGISTRY' ENTERED AT 17:57:25 ON 05 SEP 2008
1 S 31326-82-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L42 FILE 'REGISTRY' ENTERED AT 17:57:41 ON 05 SEP 2008
1 S 521-50-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L43 FILE 'REGISTRY' ENTERED AT 17:58:01 ON 05 SEP 2008
1 S 122426-01-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L44 FILE 'REGISTRY' ENTERED AT 17:58:23 ON 05 SEP 2008
1 S 122725-13-7/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L45 FILE 'REGISTRY' ENTERED AT 17:58:40 ON 05 SEP 2008
1 S 112742-08-2/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L46 FILE 'REGISTRY' ENTERED AT 17:58:59 ON 05 SEP 2008
1 S 521-50-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L47 FILE 'REGISTRY' ENTERED AT 17:59:16 ON 05 SEP 2008
1 S 1919-74-0/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L48 FILE 'REGISTRY' ENTERED AT 17:59:47 ON 05 SEP 2008
1 S 122426-01-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L49 FILE 'REGISTRY' ENTERED AT 18:00:20 ON 05 SEP 2008
1 S 22012-97-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:00:34 ON 05 SEP 2008

Updated Search

10541677

L50 1 S 114398-38-8/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:02:24 ON 05 SEP 2008

L51 1 S 31326-81-5/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

=> file caold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.46	1054.67
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'CAOLD' ENTERED AT 18:03:02 ON 05 SEP 2008
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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAOLD will be discontinued and removed from associated database clusters.

- . November 22, 2008 - removed from database clusters
- . December 31, 2008 - removed from STN

Content previously available only in CAOLD is now available in CA/Caplus. To learn more about the options available for transferring saved search queries and answer sets to CA/Caplus, contact your STN Service Center.

=> d his

(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008
L1 STRUCTURE UPLOADED

Updated Search

10541677

```
L2          0 S L1
L3          STRUCTURE UPLOADED
L4          1 S L3
L5          STRUCTURE UPLOADED
L6          0 S L5
L7          1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008
L8          1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008
L9          0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008
L10         STRUCTURE UPLOADED
L11         0 S L10
L12         1 S L10 FULL
L13         1 S L12 NOT L7

FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008
L14         1 S L13

FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008
L15         0 S L13

FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008
L16         STRUCTURE UPLOADED
L17         14 S L16
L18         232 S L16 FULL

FILE 'HCAPLUS' ENTERED AT 17:47:49 ON 05 SEP 2008
L19         2 S L18
L20         2 S L19 AND OTSOMAA, L?/AU

FILE 'CAOLD' ENTERED AT 17:48:39 ON 05 SEP 2008
L21         0 S L18

FILE 'REGISTRY' ENTERED AT 17:49:36 ON 05 SEP 2008
L22         STRUCTURE UPLOADED
L23         0 S L22
L24         178 S L22 FULL

FILE 'HCAPLUS' ENTERED AT 17:53:07 ON 05 SEP 2008
L25         0 S L24 AND OTSOMAAA, L?/AU
L26         1 S L24 AND KOSKELAINEN, T?/AU
L27         232 S L24
L28         1 S L27 AND OTSOMAA, L?/AU
L29         43 S L24/USES
L30         1 S L29 AND OTSOMAA, L?/AU
L31         42 S L29 NOT L30
L32         0 S L31 AND KOSKELAINEN, T?/AU
L33         0 S L31 AND KARJALAINEN, A?/AU
L34         0 S L31 AND RASKU, S?/AU
L35         0 S L31 AND POLLESELLO, P?/AU
L36         0 S L31 AND LEVIJOKI, J?/AU
```

Updated Search

10541677

L37 FILE 'CAOLD' ENTERED AT 17:56:03 ON 05 SEP 2008
14 S L24

L38 FILE 'REGISTRY' ENTERED AT 17:56:36 ON 05 SEP 2008
1 S 521-50-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L39 FILE 'REGISTRY' ENTERED AT 17:56:56 ON 05 SEP 2008
1 S 1919-74-0/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L40 FILE 'REGISTRY' ENTERED AT 17:57:09 ON 05 SEP 2008
1 S 3044-59-5/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L41 FILE 'REGISTRY' ENTERED AT 17:57:25 ON 05 SEP 2008
1 S 31326-82-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L42 FILE 'REGISTRY' ENTERED AT 17:57:41 ON 05 SEP 2008
1 S 521-50-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L43 FILE 'REGISTRY' ENTERED AT 17:58:01 ON 05 SEP 2008
1 S 122426-01-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L44 FILE 'REGISTRY' ENTERED AT 17:58:23 ON 05 SEP 2008
1 S 122725-13-7/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L45 FILE 'REGISTRY' ENTERED AT 17:58:40 ON 05 SEP 2008
1 S 112742-08-2/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L46 FILE 'REGISTRY' ENTERED AT 17:58:59 ON 05 SEP 2008
1 S 521-50-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L47 FILE 'REGISTRY' ENTERED AT 17:59:16 ON 05 SEP 2008
1 S 1919-74-0/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L48 FILE 'REGISTRY' ENTERED AT 17:59:47 ON 05 SEP 2008
1 S 122426-01-1/RN
SET NOTICE 1 DISPLAY

Updated Search

10541677

SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:00:20 ON 05 SEP 2008
L49 1 S 22012-97-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:00:34 ON 05 SEP 2008
L50 1 S 114398-38-8/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:02:24 ON 05 SEP 2008
L51 1 S 31326-81-5/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'CAOLD' ENTERED AT 18:03:02 ON 05 SEP 2008

=> s 124/uses

QUALIFICATION NOT VALID FOR L24

Field code qualifications can only be applied to text terms.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.46	1055.13
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 18:03:41 ON 05 SEP 2008
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

Updated Search

Updated Search

10541677

FULL SEARCH INITIATED 18:07:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 105980 TO ITERATE

100.0% PROCESSED 105980 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L57 0 SEA SSS FUL L55

=>

Uploading C:\Documents and Settings\brobinson1\My Documents\aragt.str

L58 STRUCTURE UPLOADED

=> s 158

SAMPLE SEARCH INITIATED 18:09:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 15021 TO ITERATE

13.3% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 293078 TO 307762
PROJECTED ANSWERS: 0 TO 0

L59 0 SEA SSS SAM L58

=> s 158 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 18:09:11 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 301497 TO ITERATE

100.0% PROCESSED 301497 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.03

L60 0 SEA SSS FUL L58

=>

Uploading C:\Documents and Settings\brobinson1\My Documents\sdfgsy.str

L61 STRUCTURE UPLOADED

=> s 161

SAMPLE SEARCH INITIATED 18:11:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 301372 TO ITERATE

0.7% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 5995527 TO 6059353
PROJECTED ANSWERS: 0 TO 0

Updated Search

10541677

L62 0 SEA SSS SAM L61

=>

Uploading C:\Documents and Settings\brobinson1\My Documents\arty.str

L63 STRUCTURE UPLOADED

=> s 163

SAMPLE SEARCH INITIATED 18:12:54 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 79510 TO ITERATE

2.5% PROCESSED 2000 ITERATIONS 1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
 BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 1573419 TO 1606981
PROJECTED ANSWERS: 417 TO 1173

L64 1 SEA SSS SAM L63

=>

Uploading C:\Documents and Settings\brobinson1\My Documents\artgg.str

L65 STRUCTURE UPLOADED

=> s 165

SAMPLE SEARCH INITIATED 18:14:36 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1257 TO ITERATE

100.0% PROCESSED 1257 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 23014 TO 27266
PROJECTED ANSWERS: 0 TO 0

L66 0 SEA SSS SAM L65

=> s 165 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 18:14:41 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 25767 TO ITERATE

100.0% PROCESSED 25767 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L67 1 SEA SSS FUL L65

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

Updated Search

10541677

FULL ESTIMATED COST	719.88	1775.01
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'HCAPLUS' ENTERED AT 18:14:44 ON 05 SEP 2008
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FILE COVERS 1907 - 5 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 4 Sep 2008 (20080904/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s 167/uses
      1 L67
      7178398 USES/RL
L68      1 L67/USES
          (L67 (L) USES/RL)
```

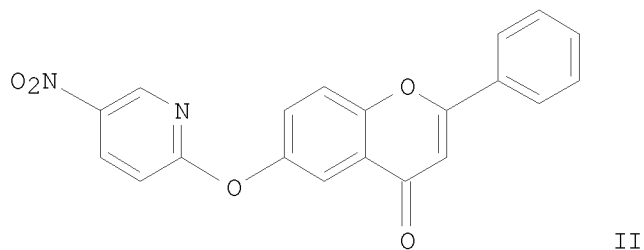
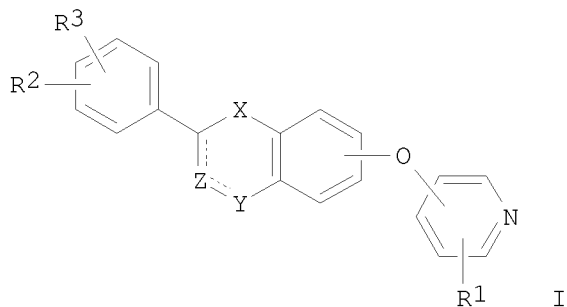
```
=> d 168, ibib abs hitstr, 1
```

L68 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:606465 HCAPLUS
DOCUMENT NUMBER: 141:157037
TITLE: Preparation of pyridine derivatives useful for
inhibiting sodium/calcium exchange system
INVENTOR(S): Otsomaa, Leena; Koskelainen, Tuula; Karjalainen, Arto;
Rasku, Sirpa; Pollesello, Piero; Levijoki, Jouko
PATENT ASSIGNEE(S): Orion Corporation, Finland
SOURCE: PCT Int. Appl., 108 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

Updated Search

10541677

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004063191	A1	20040729	WO 2004-FI11	20040109
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
AU 2004203943	A1	20040729	AU 2004-203943	20040109
CA 2512184	A1	20040729	CA 2004-2512184	20040109
EP 1583759	A1	20051012	EP 2004-701023	20040109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004006669	A	20051220	BR 2004-6669	20040109
CN 1745078	A	20060308	CN 2004-80003357	20040109
JP 2006516271	T	20060629	JP 2006-500151	20040109
NZ 541087	A	20080430	NZ 2004-541087	20040109
IN 2005KN01287	A	20061027	IN 2005-KN1287	20050701
MX 2005PA07435	A	20050912	MX 2005-PA7435	20050708
NO 2005003730	A	20051007	NO 2005-3730	20050803
US 20060241147	A1	20061026	US 2005-541677	20051028
ZA 2005005461	A	20060329	ZA 2005-5461	20060124
PRIORITY APPLN. INFO.:			FI 2003-30	A 20030109
			WO 2004-FI11	W 20040109
OTHER SOURCE(S):			MARPAT 141:157037	
GI				



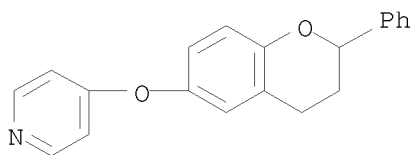
AB Title compds. I [X = O, CH₂, CO; Z = divalent alkyl, bond; Y = CH₂, CO,

Updated Search

10541677

divalent alkyl, etc.; R2-3 = H, alkyl, alkoxy, etc.; R1 = H, CN, halo, etc. with provisos] are prepared For instance, II is prepared from 2-chloro-5-nitropyridine and 6-hydroxyflavone (DMF, 120°, 30 min). I are potent inhibitors of Na⁺/Ca²⁺ exchange mechanism.

IT 728937-39-1P, 4-(2-Phenylchroman-6-yloxy)pyridine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyridine derivs. useful for inhibiting sodium/calcium exchange system)
RN 728937-39-1 HCAPLUS
CN Pyridine, 4-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



=> file caold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
8.14	1783.15

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.80	-39.20

CA SUBSCRIBER PRICE

FILE 'CAOLD' ENTERED AT 18:14:58 ON 05 SEP 2008

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAOLD will be discontinued and removed from associated database

Updated Search

10541677

clusters.

- . November 22, 2008 - removed from database clusters
- . December 31, 2008 - removed from STN

Content previously available only in CAOLD is now available in CA/Caplus. To learn more about the options available for transferring saved search queries and answer sets to CA/Caplus, contact your STN Service Center.

=> d his

(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 STRUCTURE UPLOADED
L4 1 S L3
L5 STRUCTURE UPLOADED
L6 0 S L5
L7 1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008

L8 1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008

L9 0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008

L10 STRUCTURE UPLOADED
L11 0 S L10
L12 1 S L10 FULL
L13 1 S L12 NOT L7

FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008

L14 1 S L13

FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008

L15 0 S L13

FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008

L16 STRUCTURE UPLOADED
L17 14 S L16
L18 232 S L16 FULL

FILE 'HCAPLUS' ENTERED AT 17:47:49 ON 05 SEP 2008

L19 2 S L18
L20 2 S L19 AND OTSOMAA, L?/AU

FILE 'CAOLD' ENTERED AT 17:48:39 ON 05 SEP 2008

L21 0 S L18

FILE 'REGISTRY' ENTERED AT 17:49:36 ON 05 SEP 2008

L22 STRUCTURE UPLOADED
L23 0 S L22

Updated Search

10541677

L24 178 S L22 FULL

FILE 'HCAPLUS' ENTERED AT 17:53:07 ON 05 SEP 2008

L25 0 S L24 AND OTSOMAAA, L?/AU
L26 1 S L24 AND KOSKELAINEN, T?/AU
L27 232 S L24
L28 1 S L27 AND OTSOMAA, L?/AU
L29 43 S L24/USES
L30 1 S L29 AND OTSOMAA, L?/AU
L31 42 S L29 NOT L30
L32 0 S L31 AND KOSKELAINEN, T?/AU
L33 0 S L31 AND KARJALAINEN, A?/AU
L34 0 S L31 AND RASKU, S?/AU
L35 0 S L31 AND POLLESELLO, P?/AU
L36 0 S L31 AND LEVIJOKI, J?/AU

FILE 'CAOLD' ENTERED AT 17:56:03 ON 05 SEP 2008

L37 14 S L24

FILE 'REGISTRY' ENTERED AT 17:56:36 ON 05 SEP 2008

L38 1 S 521-50-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:56:56 ON 05 SEP 2008

L39 1 S 1919-74-0/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:09 ON 05 SEP 2008

L40 1 S 3044-59-5/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:25 ON 05 SEP 2008

L41 1 S 31326-82-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:41 ON 05 SEP 2008

L42 1 S 521-50-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:01 ON 05 SEP 2008

L43 1 S 122426-01-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:23 ON 05 SEP 2008

L44 1 S 122725-13-7/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:40 ON 05 SEP 2008

L45 1 S 112742-08-2/RN

Updated Search

10541677

SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L46 FILE 'REGISTRY' ENTERED AT 17:58:59 ON 05 SEP 2008
1 S 521-50-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L47 FILE 'REGISTRY' ENTERED AT 17:59:16 ON 05 SEP 2008
1 S 1919-74-0/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L48 FILE 'REGISTRY' ENTERED AT 17:59:47 ON 05 SEP 2008
1 S 122426-01-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L49 FILE 'REGISTRY' ENTERED AT 18:00:20 ON 05 SEP 2008
1 S 22012-97-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L50 FILE 'REGISTRY' ENTERED AT 18:00:34 ON 05 SEP 2008
1 S 114398-38-8/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L51 FILE 'REGISTRY' ENTERED AT 18:02:24 ON 05 SEP 2008
1 S 31326-81-5/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'CAOLD' ENTERED AT 18:03:02 ON 05 SEP 2008

L52 FILE 'REGISTRY' ENTERED AT 18:03:41 ON 05 SEP 2008
STRUCTURE UPLOADED
L53 0 S L52
L54 0 S L52 FULL
L55 STRUCTURE UPLOADED
L56 0 S L55
L57 0 S L55 FULL
L58 STRUCTURE UPLOADED
L59 0 S L58
L60 0 S L58 FULL
L61 STRUCTURE UPLOADED
L62 0 S L61
L63 STRUCTURE UPLOADED
L64 1 S L63
L65 STRUCTURE UPLOADED
L66 0 S L65
L67 1 S L65 FULL

L68 FILE 'HCAPLUS' ENTERED AT 18:14:44 ON 05 SEP 2008
1 S L67/USES

Updated Search

10541677

FILE 'CAOLD' ENTERED AT 18:14:58 ON 05 SEP 2008

=> s 167

L69 0 L67

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.46	1783.61

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-39.20

CA SUBSCRIBER PRICE

FILE 'REGISTRY' ENTERED AT 18:15:06 ON 05 SEP 2008

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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Documents and Settings\brobinson1\My Documents\artg.str

L70 STRUCTURE UPLOADED

=> s 170

SAMPLE SEARCH INITIATED 18:18:09 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 761 TO ITERATE

100.0% PROCESSED 761 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 13565 TO 16875

PROJECTED ANSWERS: 0 TO 0

Updated Search

10541677

L71 0 SEA SSS SAM L70

=> s l70 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 18:18:13 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 14329 TO ITERATE

100.0% PROCESSED 14329 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L72 1 SEA SSS FUL L70

=> d his

(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 STRUCTURE UPLOADED

L4 1 S L3

L5 STRUCTURE UPLOADED

L6 0 S L5

L7 1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008

L8 1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008

L9 0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008

L10 STRUCTURE UPLOADED

L11 0 S L10

L12 1 S L10 FULL

L13 1 S L12 NOT L7

FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008

L14 1 S L13

FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008

L15 0 S L13

FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008

L16 STRUCTURE UPLOADED

L17 14 S L16

L18 232 S L16 FULL

FILE 'HCAPLUS' ENTERED AT 17:47:49 ON 05 SEP 2008

L19 2 S L18

L20 2 S L19 AND OTSOMAA, L?/AU

FILE 'CAOLD' ENTERED AT 17:48:39 ON 05 SEP 2008

L21 0 S L18

Updated Search

10541677

FILE 'REGISTRY' ENTERED AT 17:49:36 ON 05 SEP 2008
L22 STRUCTURE UPLOADED
L23 0 S L22
L24 178 S L22 FULL

FILE 'HCAPLUS' ENTERED AT 17:53:07 ON 05 SEP 2008
L25 0 S L24 AND OTSOMAAA, L?/AU
L26 1 S L24 AND KOSKELAINEN, T?/AU
L27 232 S L24
L28 1 S L27 AND OTSOMAA, L?/AU
L29 43 S L24/USES
L30 1 S L29 AND OTSOMAA, L?/AU
L31 42 S L29 NOT L30
L32 0 S L31 AND KOSKELAINEN, T?/AU
L33 0 S L31 AND KARJALAINEN, A?/AU
L34 0 S L31 AND RASKU, S?/AU
L35 0 S L31 AND POLLESELLO, P?/AU
L36 0 S L31 AND LEVIJOKI, J?/AU

FILE 'CAOLD' ENTERED AT 17:56:03 ON 05 SEP 2008
L37 14 S L24

FILE 'REGISTRY' ENTERED AT 17:56:36 ON 05 SEP 2008
L38 1 S 521-50-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:56:56 ON 05 SEP 2008
L39 1 S 1919-74-0/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:09 ON 05 SEP 2008
L40 1 S 3044-59-5/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:25 ON 05 SEP 2008
L41 1 S 31326-82-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:41 ON 05 SEP 2008
L42 1 S 521-50-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:01 ON 05 SEP 2008
L43 1 S 122426-01-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:23 ON 05 SEP 2008
L44 1 S 122725-13-7/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

Updated Search

10541677

L45 FILE 'REGISTRY' ENTERED AT 17:58:40 ON 05 SEP 2008
1 S 112742-08-2/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L46 FILE 'REGISTRY' ENTERED AT 17:58:59 ON 05 SEP 2008
1 S 521-50-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L47 FILE 'REGISTRY' ENTERED AT 17:59:16 ON 05 SEP 2008
1 S 1919-74-0/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L48 FILE 'REGISTRY' ENTERED AT 17:59:47 ON 05 SEP 2008
1 S 122426-01-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L49 FILE 'REGISTRY' ENTERED AT 18:00:20 ON 05 SEP 2008
1 S 22012-97-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L50 FILE 'REGISTRY' ENTERED AT 18:00:34 ON 05 SEP 2008
1 S 114398-38-8/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L51 FILE 'REGISTRY' ENTERED AT 18:02:24 ON 05 SEP 2008
1 S 31326-81-5/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'CAOLD' ENTERED AT 18:03:02 ON 05 SEP 2008

L52 FILE 'REGISTRY' ENTERED AT 18:03:41 ON 05 SEP 2008
STRUCTURE UPLOADED

L53 0 S L52

L54 0 S L52 FULL

L55 STRUCTURE UPLOADED

L56 0 S L55

L57 0 S L55 FULL

L58 STRUCTURE UPLOADED

L59 0 S L58

L60 0 S L58 FULL

L61 STRUCTURE UPLOADED

L62 0 S L61

L63 STRUCTURE UPLOADED

L64 1 S L63

L65 STRUCTURE UPLOADED

L66 0 S L65

L67 1 S L65 FULL

Updated Search

10541677

FILE 'HCAPLUS' ENTERED AT 18:14:44 ON 05 SEP 2008
L68 1 S L67/USES

FILE 'CAOLD' ENTERED AT 18:14:58 ON 05 SEP 2008
L69 0 S L67

FILE 'REGISTRY' ENTERED AT 18:15:06 ON 05 SEP 2008
L70 STRUCTURE UPLOADED
L71 0 S L70
L72 1 S L70 FULL

=> s l51 not l72
L73 1 L51 NOT L72

=> file hcaplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	180.66	1964.27
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-39.20

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FILE COVERS 1907 - 5 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 4 Sep 2008 (20080904/ED)

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=> s l73/uses
1 L73
7178398 USES/RL
L74 0 L73/USES
(L73 (L) USES/RL)

Updated Search

10541677

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

2.69

1966.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

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DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

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